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IN ILLINOIS
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PROBLEM SITES: LANDS AFFECTED BY UNDERGROUND MINING FOR COAL IN ILLINOIS

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IIEQ Environmental Information Center

Illinois Institute for Environmental Quality
309 West Washington Street
Chicago, Illinois 60606

Problem Sites: Lands Affected by Underground Mining for Coal in Illinois

by

J. R. Nawrot
P. L. Pursell
W. D. Klimstra
B. N. Jacobson
Cooperative Wildlife Research Laboratory
Southern Illinois University at Carbondale
Carbondale, Illinois 62901

Project No. 80.082

IIEQ Document No. 77/38

December, 1977

Frank H. Beal, Director
Illinois Institute for
Environmental Quality
309 West Washington St.
Chicago, Illinois 60606

(312) 793-3870

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ABSTRACT

Following a statewide survey of all Illinois lands affected by underground mining for coal, the Cooperative Wildlife Research Laboratory of Southern Illinois University at Carbondale identified problem areas associated with abandoned underground mine sites. Based upon an evaluation of the extent and severity of adverse environmental parameters, approximately 5,000 acres representing 508 mine sites located in 50 counties were identified as problem areas. These areas represented of one or more of the following conditions: 1) exposed refuse materials (2,812.6 acres of gob and 666.8 acres of slurry), 2) abandoned tipple areas (397.7 acres), 3) polluted water impoundments (233.7 acres), 4) adjacent affected terrestrial areas, 5) mine drainage to adjacent ditches, streams, and/or rivers (276 mine sites), and 6) potentially hazardous mine openings including openings with mine drainage.

Deeply eroded, barren or sparsely vegetated refuse areas, as well as potentially hazardous or flowing mine openings, characterized the most severe problem conditions. Problem areas ranged in size from 0.1 to 206.2 acres; however, 43 percent of the problem sites were less than 2.0 acres. Eight southern counties, Franklin (937.5 acres), Williamson (707.1 acres), Saline (293.8 acres), Macoupin (421.0 acres), Perry (269.9 acres), Madison (268.7 acres), St. Clair (261.6 acres), and Randolph (206.5 acres) accounted for more than two-thirds of the state's total problem acreage.

In addition to physical and vegetational descriptions, analyses of refuse samples as well as drainage samples were included with individual mine site descriptions. An objective ranking system

of problem sites based upon the extent and severity of individual problem conditions was also included.

Some reclamation approaches are discussed for the various problem conditions of exposed gob and slurry refuse, abandoned tipple areas, adjacent affected terrestrial and aquatic areas, and potentially hazardous or pollutional mine openings. However, it is suggested that each problem site will require a detailed appraisal of its associated problem conditions, environmental impacts, and reclamation costs before recommending and implementing a reclamation plan.

INTRODUCTION

Early coal mining in Illinois consisted of digging in outcrops along river bluffs or stripping shallow overburden from seams near the surface. Such techniques resulted in very little refuse (waste coal and other debris) at the surface, as most coal was selected by hand without further processing. Modern mining practices incorporating continuous mining machines, as well as the demand for clean, processed coal, has resulted in current refuse rates of 20 to 50 percent of the deep mined coal. In 1974, the nation's coal industry generated about 130 million tons of coal mine refuse (Schlick and Wahler 1976). Refuse produced by underground mines in Illinois totaled an estimated 8 to 15 million tons in 1975, or approximately 8.9 million cubic yards.

Coal preparation plants produce two types of refuse material: gob and slurry. Coarse refuse (plus 28 sieve or >0.5mm), referred to as gob, contains waste coal, rock, pyrites, or other materials of relatively large size. The washing process produces effluent (minus 28 sieve), referred to as slurry, containing small coal particles, clay, and other debris (Martin 1974). In the past, gob was deposited in refuse piles; slurry was pumped and deposited into streams, onto adjacent terrestrial areas, or into impoundments.

After the abandonment of underground mines, many refuse areas have remained as health, safety, and environmental problems. In addition to being aesthetically offensive, acid drainage, erosion, and sedimentation can drastically affect adjacent terrestrial and aquatic areas. Also, faulty engineering procedures can result in the collapse of refuse embankments as so strikingly exemplified by the 1972 Buffalo

Creek Disaster which claimed 125 lives in West Virginia (Schlick and Wahler 1976). Furthermore, abandoned buildings, discarded equipment, and unsealed mine entrances located on the tipple area are potentially hazardous and contribute to the environmental problems.

Increased awareness and concern for health, safety, and environmental problems associated with both active and abandoned underground mines have prompted the enactment of both federal and state statutes to monitor, control, and rectify past problems. Two federal statutes administered by the Environmental Protection Agency (EPA) regulate coal mine water pollution. The Federal Water Pollution Control Act Amendments of 1972 (Public Law 92-500) and its permit system, known as the National Pollutant Discharge Elimination System (NPDES), provide both technologically-based effluent limitation guidelines and water quality standards (United States Congress 1972). The EPA sets effluent limitations for specific pollutants; individual states may adopt water quality standards, subject to EPA approval (Begley and Williams 1976).

General water quality standards for Illinois are established by the Illinois Pollution Control Board Regulations, Chapter 3: Water Pollution (Illinois Pollution Control Board 1976). Specific regulations of Chapter 4: Mine Related Pollution, insure that environmental considerations are taken into account when planning the location, operation, and abandonment of mining and refuse areas (Illinois Pollution Control Board 1972). The Illinois Environmental Protection Agency is responsible for granting permits, monitoring water quality, and enforcing the standards set forth in these regulations. In addition to establishing environmental guidelines for active mines, specific requirements state that within one year of the cessation of operation a permit to abandon must be obtained, and refuse piles and slurry ponds must be graded and vegetated in accordance with the grading and revegetation standards of Sections 6206(a), (f), and (k) of the Illinois Surface-Mined Land Conservation Act of 1971 (Illinois Pollution Control Board 1972). Additional federal regulations provided by the Surface Mining Control and Reclamation Act of 1977-Public Law 95-87 (United States Congress 1977) will also ensure that deep mine refuse disposal areas are operated and abandoned in an environmentally sound manner.

Prior to the enactment of Chapter 4 of the Illinois Pollution Control Board Regulations, specific environmental legislation did not exist for regulating the abandonment of underground mines. Consequently, many underground mines abandoned prior to 1972 had received little or no reclamation treatment. To deal with these unreclaimed mines (including lands affected by surface mining prior to 1962), the Abandoned Mined Lands Reclamation Act of 1975 empowered the State to acquire abandoned mined lands and to restore them to productive use (Illinois General Assembly 1975). Acquisition priorities for abandoned mined lands were based upon the following considerations: 1) the extent of air and water pollution, 2) the financial ability of the owners to correct pollution problems, 3) the potential economic value of the land under private ownership subsequent to reclamation, 4) the potential economic value of the land in the public domain for recreational purposes subsequent to reclamation, and 5) associated health or safety problems.

An inventory and assessment of unreclaimed lands and associated environmental problems is recognized as being an integral step in carrying out the directives of Illinois' Abandoned Mined Lands Reclamation Act, as well as participating in and sharing funds of the abandoned mine reclamation program identified in the Federal Surface Mining Control and Reclamation Act of 1977. During 1970 and 1971, the Cooperative Wildlife Research Laboratory of Southern Illinois University at Carbondale conducted an intensive survey of all surface mined lands in Illinois (Haynes and Klimstra 1975a) and prepared a site-specific directory of problem areas (Klimstra and Terpening 1974); however, similar information was lacking for underground mines. Recognizing this need, the Illinois Institute for Environmental Quality (IIEQ) funded the Laboratory in 1975 to conduct a survey of lands affected by underground mining for coal in Illinois (Nawrot et al. 1977), and subsequently to prepare a site-specific directory of problem areas associated with the site of extraction and processing of coal from underground mining.

The identification of problem sites associated with abandoned underground mines entailed an evaluation of the extent and severity of all adverse environmental parameters. Approximately 5,000 acres representing 508 mine sites located in 50 counties were identified as problem areas. Problem areas, as exemplified by photographs in Appendix A, reflected one or more of the following conditions:

1) Exposed refuse materials (2,812.6 acres of gob and 666.8 acres of slurry)
2) Abandoned tipple areas (397.7 acres)
3) Polluted water impoundments (on-site and off-site) (233.7 acres)
4) Adjacent affected terrestrial areas (821.5 acres)
5) Mine drainage to adjacent ditches, streams, and/or rivers (276 mine sites)

6) Potentially hazardous mine openings including openings with mine drainage (70 mine sites).

Mine sites identified as problem areas ranged in size from 0.1 to 206.2 acres; however, 43 percent of the problem sites were less than 2.0 acres. Eight southern counties, Franklin (937.5 acres), Williamson (707.1 acres), Saline (293.8 acres), Macoupin (421.0 acres), Perry (269.9 acres), Madison (268.7 acres), St. Clair (261.6 acres), and Randolph (206.5 acres), contained more than two-thirds of this acreage. In addition, two northern counties (Bureau and Grundy) and one east central county (Vermilion) contained over 541.5 such acres. Deeply eroded, barren refuse areas, as well as potentially hazardous or flowing mine openings, characterized the most severe problem conditions.

Sites categorized as problem areas were usually barren or sparsely vegetated with grasses, herbs, shrubs, and occasionally small trees. Ground cover vegetation on these sites was restricted to small clumps scattered over the area; common species included broom-sedge (*Andropogon virginicus*), three-awn grasses (*Aristida* spp.), and blackberry (*Rubus* spp.). Problem gob and slurry areas characteristically lacked overstory vegetation, or when it occurred, only a few stunted trees such as pin oak (*Quercus palustris*) and elm (*Ulmus* spp.) were present. In contrast, sites not classified as problem areas generally exhibited vegetative cover ranging from good to excellent (vegetative cover from 51 to 75 percent or greater) with a wide diversity of species.

In addition to physical and vegetational descriptions of individual problem sites, refuse samples, as well as mine drainage and runoff samples, were collected when possible. Results of analyses were included with individual mine site descriptions to further identify the severity of environmental problems associated with problem areas. A previous analysis and evaluation of mine drainage samples indicated that runoff from refuse and mine drainage of poor quality was polluting Illinois' waters and terrestrial areas (Nawrot et al. 1977). Generally, water quality was within acceptable limits before reaching abandoned mine sites; however, due to drainage from refuse areas, a deterioration in quality was observed in waters downstream of mine sites. In addition to the harsh physical conditions associated with refuse disposal areas, a preliminary evaluation of refuse samples indicated the presence of adverse chemical conditions detrimental to vegetation establishment (Nawrot et al. 1977). Problem site refuse samples exhibited toxic growth medium conditions characterized by low pH values, high concentrations of soluble salts, and high acid-producing potentials. Further analyses of refuse samples have indicated the presence of additional phytotoxic conditions associated with high levels of aluminum, iron, manganese, and sulfate.

The intention of the Illinois Abandoned Mined Lands Reclamation Act was to reclaim and restore to productive use mine sites designated as problem areas. As acquisition priorities for problem sites were to emphasize the degree of land, air, or water pollution, an objective system of ranking problem sites was developed based upon these broad parameters.

A more detailed description of the ranking system, including the problem conditions identified, the evaluation and assigning of problem index points, as well as the computer program utilized in performing this task, appears in Appendices J and K of Illinois Lands Affected by Underground Mining for Coal (Nawrot et al. 1977). Generally, the system reflects an evaluation of the extent and severity of individual problem conditions, the assignment of corresponding problem index points for these individual conditions, and a final summation of the total Problem Area Index points for the entire problem area. Problem index points were identified for the following conditions: 1) hazardous openings, 2) mine drainage to adjacent waterways and off-site terrestrial areas based on type of flow (continuous or intermittent), 3) runoff to adjacent waterways and off-site terrestrial areas based on size and vegetative cover of the refuse area, 4) on-site impoundments affected by mine drainage (based on size), 5) off-site terrestrial areas and impoundments affected by mine drainage (based on size), 6) exposed gob based on acreage and vegetative cover of area, 7) exposed slurry based on acreage and vegetative cover of area, 8) exposed tipple based upon acreage and vegetative cover of area, and 9) volume of gob refuse. In addition to the assignment of problem index points based upon the extent and severity of conditions, additional points were assigned based upon the environmental locale of the problem area. Total Problem Area Index points ranged from a low of 9 for a small mine site consisting only of a 0.1-acre gob area to more than 300 each for several large mines consisting of severe problem conditions. The Problem Area Index values which appear on each problem site description should be useful in establishing reclamation priorities for problem mine sites. Although many small disturbances, as reflected by their relatively low Problem Area Index points, were often recorded as potential problem sites, they also represented a reclamation challenge that should not be ignored.

SOME RECLAMATION TECHNIQUES FOR CONSIDERATION

The environmental problems of abandoned mine sites differ in magnitude with the locale of a given impacted site. Those in urban settings are aesthetically unacceptable to more people than mines in rural areas, especially when isolated from heavily traveled arteries of transportation. Pollution resulting from burning refuse or particulates in the air from dried slurry are of greater concern when near residential areas. Flooding, drainage, and siltation resulting from gob and slurry sites have impacted both urban and rural areas. Reclamation efforts must reflect a prioritizing which addresses all types of problems as evidenced by the level of the public's concern for aesthetics and environment. Further, ownership (individual, corporate, and public) and financial capability must be identified in creating priorities for a state-sponsored reclamation program of impacted environments.

Consideration for reclamation in many regions might best reflect that utilization which was in evidence when the survey was conducted. Such uses included agriculture activities (row crops, pasture, and animal lots), recreation (water), structural developments (cattle barn, repair and machine shops, warehouse, and residential), and reversion to natural condition (revegetation). A few abandoned sites were employed by current mining operations for processing or storage of coal.

In the interest of energy conservation it is appropriate that high priority be given secondary carbon recovery. Of the nearly 4,000 acres of gob with an estimated volume of over 70 million cubic yards, there appears to be a sizable tonnage of usable coal. Attention need be given to detailed sampling to determine the quality and quantity of this potentially readily available source of energy. Important for similar consideration are nearly 700 acres of slurry. Eight recovery operations of slurry and nine of gob were recorded during the underground mine survey. The processing of gob or slurry depends largely on the economic feasibility (quantity, quality, and market) of each individual site or combination of sites. During carbon recovery activities environmental problems are created which must be accommodated in the plan of operation and in the abandonment or completion of the recovery efforts. These problems may prove more serious than those prior to attempts at secondary recovery.

Residues resulting from recovery and site reclamation must be part of such salvage programs. Revegetation, possible direct seeding or covering with soil and seeding, must be accomplished. The only alternative is removal and burial disposal of all residues and revegetating the exposed surface soils through required seedbed preparation and application of necessary soil amendments.

Where there is known off-site impaction from processing sites, creation of run off diversions will isolate and contain the problem. However, this must be viewed as a cosmetic and temporary resolution as aesthetics and productive use have not been accommodated.

Seemingly an acceptable practice is grading (gob) to acceptable slopes and covering (gob and slurry) with a mantle of soil. Although depths of 3 to 4 feet have been identified as necessary, the long-term aspect has not been determined. In fact, there is some evidence (Sukthumrong 1975) that there is an upward movement of acid. Also, knowing the depth of root penetration for various plant species, it is clear that a 3 or 4 foot covering of soil would be inadequate. However, the maintenance of vegetative cover of shallow rooted species may offer a solution to this problem.

Although experimental and also untested with time, some refuse sites may be revegetated without a mantle of soil application. Even though extensive amendments are required, this approach may have merit in many areas. It is far less expensive than covering with soil and avoids the problem of borrowing soil from elsewhere which potentially creates another problem especially in prime land areas. The feasibility of seedbed preparation and direct seeding will require evaluation of conditions characteristic of each site.

For appropriate sites, use of underground mined-out areas for disposal of refuse as well as subsidence control is a matter of record (National Academy of Science 1975; Jankousky 1977). Hydraulic backfilling is not without problems and extended costs; transportation of dry refuse via conveyor belts in dry underground working may be less expensive.

Other than carbon recovery, use of gob and slurry should be aggressively investigated. Gob has a utility as fill when adequately buried beneath soil as required for road construction. During the survey several instances were noted where burned out gob piles ("red dog") were used by shale companies and/or individuals in road construction, driveway surfacing and landscaping. The cost of environmentally acceptable abandoned mine sites may well be offset by technology developing economically feasible uses for gob and slurry. It seems somewhat ironical that a scenic overlook was constructed on one gob pile and memorial to miners lost in a mine disaster was associated with remnants of a gob refuse area (Nawrot et.al., 1977).

A major need, not only to accommodate a public concern but also a federally-imposed priority in abandoned mined land reclamation is the sealing of mine shaft openings. Hazardous openings (main, air, and escape shafts) and openings flooded or partially filled with debris were documented at 52 mine sites. All require immediate attention either as serious, active sources of pollution and/or risk to humans.

Tipple sites and related structural facilities generally require "clean up" operations and revegetation. In several instances, because of soundness of remaining buildings, their occupancy for other purposes ought be considered. Some of these sites hold excellent potential for industrial or commercial developments. This type reclamation avoids impact on lands important for current uses (i.e. agricultural); also, some locations have very desirable access to already established transportation systems. The industrial park concept should be aggressively pursued.

It is feasible to consider recreational developments for hunting and/or fishing as well as park-type activity for selected sites. Of particular value for these purposes are those abandoned areas with water impoundments. Already 23 such areas of water are used for recreational purposes; at least twice that number hold potential for such development. To accommodate water related interests, problems of pollution via surface drainage from adjacent refuse must be resolved. Hence, plans for reclamation must include rehabilitation of the entire site. To be appreciated, such sites may hold that last possibility for wildlife habitat and recreational pursuits in an otherwise intensive agricultural land use pattern. The ready solution for some sites is to rehabilitate so as to fit the surrounding prevailing land use. Often this is the least expensive, and community wise, the most acceptable. Most prevelant in such consideration will probably be agricultural, residential or industrial use.

Problem waters and sites of toxic drainage may require treatment systems to detoxify water. Such measures may range from direct lime application to impoundments, lime traps through which drainage waters flow, to actual water treatment plants for strategic sites. At best the latter should be viewed as a measure to meet an emergency situation not as a permanent solution. Eventually the sources of toxicity must be rectified for there to be acceptable reclamation.

SUMMARY

As a result of two statewide inventories (Haynes and Klimstra 1975a, Nawrot et al. 1977) a total of 202,342 acres were identified as having been affected by surface and deep mining for coal in Illinois.[1] Surface mining accounted for over 94 percent (191,874 acres) of the total affected acreage with over 9 percent of the surface mine acreage (17,627 acres) identified as problem areas. Lands impacted by underground mining accounted for only 5 percent (10,468 acres) of the total affected coal mined lands in Illinois; however, almost one-half (4,932 acres) of the lands affected by deep mining were identified as problem areas. Furthermore, this acreage was associated exclusively with abandoned mine sites which totaled 6,876 acres. This larger acreage of deep mine affected lands classified as problem areas reflects the inherently severe environmental and aesthetic conditions associated with abandoned coal preparation and refuse disposal areas. Similarly, refuse disposal areas as well as inactive tipple sites accounted for almost 6,000 problem acres related with surface mining activities. Although surface mining has a much greater impact acreage-wise than deep mining, problem situations as reflected by sites of processing coal and disposal of refuse materials are similar regardless of the techniques of extraction.

Because of the statewide inventories, Illinois has available rather detailed analyses of all lands and waters affected by both surface (Haynes and Jewell 1973; Haynes and Klimstra 1975a,b) and deep mining (Nawrot et al. 1977) for coal. Prelaw and postlaw conditions were emphasized as referenced in state legislation (Surface-Mined Land Conservation and Reclamation Act,

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[1] Affected deep mine acreage as of 1 September 1976; affected surface mine acreage updated to 30 June 1976.

PA 78-1295) and regulations affecting the mining of coal, and as it impacts water quality (Illinois Pollution Control Board 1976 and 1972: Chapter 3, Water Pollution and Chapter 4, Mine Related Pollution). The extensive baseline data collected allow evaluation of the effectiveness of government regulations in ensuring quality environments.

The deep mine inventory identified waters and lands related to extraction and processing sites; namely, those which contributed to environmental degradation, and which represented health and safety problems. The survey of surface mining, in comparison, was more extensive as all acreages affected were identified, including those reclaimed and returned to productive use. Whether underground or surface mining, problem situations (Klimstra and Terpening 1974) related to sites of processing coal, such as gob and slurry, are similar.

The two comprehensive inventories provide the citizenry of Illinois the opportunity to develop statewide coordinated planning to resolve the problems created by the mining of Coal (Nawrot and Klimstra 1977). The surveys contribute importantly to the Illinois Abandoned Mined Lands Reclamation Council whose responsibility is to restore abandoned mined lands for productive uses (Illinois General Assembly 1975). In addition, state, regional county, and city planners now have necessary information for planning, not only for problem-site resolution, but for future land use practices. With the specificity of information on the impact of coal mining available, the state, its political subdivisions, and numerous individual landowners hold a priority position in participating in the sharing of state and federal funds. It is clear that monies available as a result of actions by the Illinois legislature and U. S. Congress (P. L. 95-87) can be appropriately planned for and justified. Rather precise conditions must be accommodated for access to funds not the least of which is a statewide inventory, a plan for decision making in developing priorities, identified objectives and alternatives for productive use of reclaimed sites, and a system for acquisition and disposition of properties.

The inventory data permit reclamation planning so that there can be coordination with and between political subdivisions; hence, community, regional and statewide needs and concerns can be addressed. This accommodates a prioritized systems approach which emphasizes in its design the seriousness of the problem as well as the value of the end product of reclaimed sites. Essential is the development of an acceptable means for decision making which is not impacted by special interests at any level. In Illinois the Abandoned Mined Lands Reclamation Council will develop a model plan for arriving at priorities in reclamation. This plan, coordinated with selected state and federal agencies and individual land owners, permits Illinois to meet its responsibility for prelaw conditions, as well as participate fully in programs of revenue sharing especially those generated by P. L. 95-87.

Although this site-specific directory is not essential to the evolvement of a statewide decisioning process, it establishes the precise parameters of problem situations related to the handling and processing of coal from underground mining. The contribution of the problem site directory for surface mining has been beyond all expectations. Seemingly, it has served important needs of government agencies (i.e. Illinois Institute for Environmental Quality; Environmental Protection Agency; Department of Mines and Minerals; and United States Bureau of Mines, Geological Survey, Environmental Protection Agency, and Fish and Wildlife Service), local communities (Reclamation Coal-ition), county boards of supervisors, planning commissions (i.e Greater Egypt, Northeastern Illinois, and Southwestern Illinois) and others (i.e. Ohio River Basin Energy Studies, Illinois South Project, and 208 Areawide Waste Treatment and Water Quality Management Planning). An immense nationwide interest has been shown by those industries engaged in, or who are considering, carbon recovery from gob and slurry.

IDENTIFICATION AND DESCRIPTION OF PROBLEM SITES

The following section contains site descriptions for 508 abandoned underground mine sites representing potential problem situations. Descriptions are arranged in alphabetical order by county; and, within each county in ascending numerical order based upon the township, range, and section location. Site descriptions appear on the left-hand page, with drainage and refuse analysis data on the adjacent right-hand page.

"Mine Index" numbers refer to the Illinois Department of Mines and Minerals classification system begun in 1902, in which Shipping, "S", mines were identified as high production operations that shipped coal by rail, while Local, "L", mines provided coal for local use. Mine Index numbers prefixed by "U" refer to mines for which no classification was available. In addition to acreage determinations for refuse and other problem acreage, estimates of gob volume (cubic yards) are also provided.

The "Problem Area Index" value, as explained previously, provides an index to the relative severity of problem conditions associated with each site. A complete tabular listing of all potential problem areas, their acreage components, and Problem Index value appears in Appendix I of Illinois Lands Affected by Undergound Mining for Coal (Nawrot et al. 1977).

Subsequent to the survey of abandoned mines, two sites representing approximately 100 acres were reclaimed as part of the Illinois Abandoned Mined Lands Reclamation program. Site descriptions for these reclamation projects were retained in this directory as they might provide a useful pre-reclamation reference. Also, it should be appreciated that some small sites (less than 0.5 acre), previously identified as problem areas, may no longer exist due to rapid urban development, or other land use activities, which occurred subsequent to the completion of the field survey.

In addition to physical and vegetational descriptions, drainage and refuse analyses data were also provided for problem sites when available. Waters on or adjacent to each mine site were sampled and analyzed for characteristics typical of mine drainage. Details of sample collection and analysis, as well as a general data summary, have been reported by Nawrot et al. (1977). For each mine site, these data have been identified according to sample type. Above Mine samples, representing adjacent flowing waters before mine influence, were collected upstream from the mined area. Where a mine site comprised a stream's headwaters, no Above Mine sample was available. General Runoff was classified as water originating on the mine area and flowing into adjacent aquatic or terrestrial areas. Below Mine samples were collected below the mixing zone of mine drainage with adjacent flowing waters. Depressions on gob and slurry areas capable of holding temporary or permanent water were classified as Gob or Slurry Pools. On-site Impoundment samples were collected from permanent ponds on mine property. Flooded or Flowing Openings were distinguished by the presence or absence of effluent from a mine opening. Water samples were also collected from adjacent Off-site Aquatic areas (farm ponds, lakes, etc.) which appeared to be receiving mine effluent, and from Off-site Terrestrial areas on which mine drainage had formed stagnant pools.

Refuse samples were collected from the surface 6 inches and classified as unburned gob, burned gob, or slurry. Each sample was a composite of 10, 50-75g portions (air-dry weight) judged representative of the area. Samples were stored in sealed plastic bags until they were air-dried and crushed to pass a 2-mm sieve (Smith et al. 1974:42). Potential acidity (Smith et al. 1974:48) was determined on a subsample crushed to pass a 60-mesh sieve. To further evaluate the pollution potential and toxicity of refuse areas, aqueous extracts of refuse were prepared and analyzed. Duplicate suspensions were prepared in 500-ml polypropylene bottles, each containing 250 ml water and the oven-dry equivalent of 100g refuse. Suspensions were mixed for 30 minutes at 210 rpm on an orbital shaker and filtered through Whatman No. 40 paper. Aluminum, iron, and sulfate were measured spectrophotometrically using AluVer III, FerroZine, and SulfaVer IV reagents, respectively (Hach Chemical Company 1975). Manganese was determined according to Standard Methods (1971:208-209); but, the pretreated sample was filtered through glass wool to remove precipitate (presumably silica) before oxidation. Titratable acidity was determined by electrometic titration to an end-point at pH 8.2. Additionally, pH and conductivity were measured at 25°C for all extract samples. Aluminum, iron, manganese, and sulfate data have been expressed as ppm on an oven-dry refuse basis.

The data characterizing drainage and refuse samples should be viewed with certain restrictions in mind. Although an attempt was made to maximize the possiblity of collecting runoff by sampling after rainfall, this was not always possible. Further, solute concentrations in runoff were probably influenced by the temporal distribution, amount, and intensity of precipitation preceding sampling. Consequently, reported solute concentrations or the absence of specific drainage types may not be typical of a specific site. The occurrence of General Runoff, Below Mine, Off-site Aquatic, and Off-site Terrestrial samples is itself particularly significant as it indicates the potential for more than a localized problem. Because refuse samples were stored for several months under conditions allowing continued oxidation, variations due to the leaching effects of rainfall were probably minimized. Therefore, to the extent that the composite samples are representative, the between-site comparability of refuse sample data is probably more meaningful than for the drainage samples. Refuse samples were collected from the outer mantle as this layer contributes most to acid runoff (Good et al. 1970). However, in evaluating refuse data, one should realize that continued erosion may uncover material of a more reactive nature. The rationale for measuring titratable acidity and potential acidity was to identify immediately available and reserve quantities, respectively. However, because the aqueous extractions were undoubtedly incomplete, the total acid ultimately requiring neutralization would be greater than the sum of these parameters.

The following pages contain the descriptions of problem sites associated with abandoned underground coal mines in Illinois.

County Bond T 4N R 4W S 3

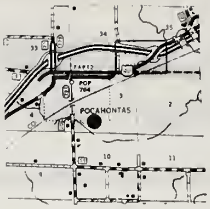
Mine Index S001 Opened 1906 Closed 1943

Environmental Locale Urban - Industrial

Mined by Illinois-Pocahontas Coal Co.

Owner Private

Gob Volume 600 Problem Area Index 11



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.8	0.4		1.4			

Description:

This mine, located in an urban - industrial area near Pocahontas, consisted of problem acreage associated with a gob refuse and a tipple area. The uneroded gob pile was less than 10 feet high with a 3 to 15 percent slope. Moderate overstory vegetation was restricted to the perimeter of the refuse. Buildings and foundations were present on the tipple area, which supported scattered herbs, shrubs, and small trees. A 0.2-acre unpolluted water impoundment was also present on the mine site. Potential for drainage to adjacent streams was not observed.

County Bond T 5N R 2W S 8

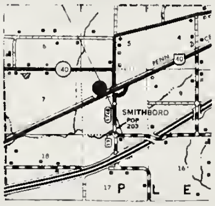
Mine Index U001 Opened 1907 Closed 1910

Environmental Locale Agricultural

Mined by Mississippi Valley Coal Co.

Owner Private

Gob Volume 1,900 Problem Area Index 19



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.3	0.3					

Description:

This mine, located in an agricultural area near Smithboro, consisted of problem acreage associated with a small gob refuse area. The moderately sloped and eroded gob pile was 21 to 30 feet in height. Moderate ground cover and overstory vegetation were uniformly distributed on the refuse area. A 0.1-acre unpolluted water impoundment was also present on the mine site. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Bureau T 16N R 11E S 10

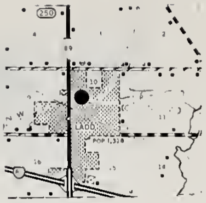
Mine Index U002 Opened -- Closed --

Environmental Locale Urban - Industrial

Mined by Illinois Third Vein Coal Co.

Owner City of Ladd

Gob Volume 3,704,000 Problem Area Index 336



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
54.4	30.3		11.8		12.3	

Description:

This mine, located in an urban - industrial area near Ladd, consisted of problem acreage associated with two extensively burned gob refuse areas, a tipple area, and an off-site terrestrial area. Both refuse areas were steeply sloped, severely eroded, and 81 to 90 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slopes of both gob piles. A 0.5-mile gravel road remained on the poorly vegetated tipple area. Runoff from the gob refuse areas had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine site.

County Bureau T 16N R 11E S 18

Mine Index U003 Opened -- Closed --

Environmental Locale Urban - Residential

Mined by Spring Valley Coal Co.

Owner Private

Gob Volume 1,935,000 Problem Area Index 253

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
26.2	15.0				9.0	2.2

Description:

This mine, located in an urban - residential area near Seatonville, consisted of problem acreage associated with two extensively burned gob refuse areas, an off-site terrestrial area, and an off-site aquatic area. Both refuse piles were steeply sloped, severely eroded, and 81 to 90 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of both gob piles. Runoff from the refuse piles had affected adjacent off-site terrestrial and aquatic areas, and potential for drainage to adjacent streams existed at the mine site.

U002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.5	7,000	480	50	23	42	10,300
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.2	8,200	40	85	710	3,800	86	22,000
Burned Gob	4.6	760	0.1	7	8.4	0.3	1.8	780
Slurry								

U003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.5	5,200	1,200	150	1.4	41	8,000
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	7.2	620	7	0.2	Tr	0.0	59
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	3,200	4.1	25	250	1.8	37	5,300
Burned Gob	4.1	1,500	0.3	16	14	0.2	1.1	2,100
Slurry								

County Bureau T 16N R 11E S 24

Mine Index U004 Opened -- Closed 1924

Environmental Locale Urban - Residential

Mined by Spring Valley Coal Co.

Owner Private

Gob Volume 2,782,000 Problem Area Index 358

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
34.3	26.0		0.3		8.0	

Description:

This mine, located in an urban - residential locale near Dalzell, consisted of problem acreage associated with four gob refuse areas, a tipple area, and an off-site terrestial area. Two of the refuse piles were extensively burned. Height of the refuse piles ranged from 11 to 20 feet to 81 to 90 feet and all four were steeply sloped and severely eroded. Light vegetative cover was present on two of the gob piles. Machinery and buildings, as well as a 0.4-mile gravel road, remained on the tipple area. Runoff from the gob had affected an adjacent off-site terrestial area, and potential for drainage to adjacent streams existed at the site.

County Bureau T 16N R 11E S 31

Mine Index U005 Opened 1907 Closed --

Environmental Locale Forest

Mined by Marquette 3rd Vein Coal Co.

Owner Private

Gob Volume 651,000 Problem Area Index 126

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
9.9	7.9				2.0	

Description:

This mine, located in a forested area approximately 2 miles west of Spring Valley, consisted of problem acreage associated with two gob refuse areas and an off-site terrestrial area. The largest gob pile was steeply sloped, severely eroded, and 81 to 90 feet in height. Sparse ground cover and light overstory vegetation were restricted to the lower slope of this extensively burned refuse area. The second severely eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Sparse ground cover and moderate overstory vegetation were present on this refuse pile. Runoff from the gob had affected an adjacent off-site terrestrial area; potential for drainage to adjacent streams existed at the mine site.

U004

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	7.1	1,500	28	0.1	0.9	1.2	720
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.3	4,200	4.8	71	160	67	2.2	5,700
Burned Gob	4.4	210	0.1	9	3.0	0.4	1.2	160
Slurry								

U005

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	6,100	15	15	1,200	3.6	137	13,900
Burned Gob								
Slurry								

County Bureau T 16N R 11E S 33

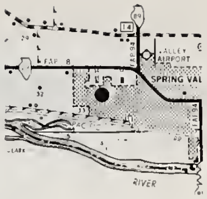
Mine Index S001 Opened 1886 Closed 1947

Environmental Locale Rural-Residential

Mined by Spring Valley Coal Company

Owner Private

Gob Volume 945,000 Problem Area Index 206



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
21.2	18.8			0.1	2.3	

Description:

This mine, located in a rural-residential area near Spring Valley, consisted of problem acreage associated with three extensively burned gob refuse areas, an on-site water impoundment, and an off-site terrestrial area. All three of the gob piles were severely eroded; they ranged in height from 11 to 20 feet to 81 to 90 feet. Two of the refuse piles were steeply sloped, and the third had a slope of 3 to 15 percent. Poor ground cover and sparse overstory vegetation were present on two of the refuse areas, while the third area was barren. Runoff from the gob had affected an on-site water impoundment and an adjacent off-site terrestrial area; potential for drainage to adjacent streams existed at the mine site.

County Bureau T 16N R 11E S 35

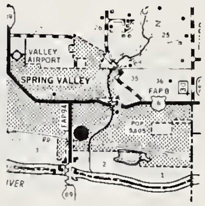
Mine Index U006 Opened 1897 Closed 1926

Environmental Locale Urban - Residential

Mined by Spring Valley Coal Company

Owner Private

Gob Volume 2,090,000 Problem Area Index 187



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
21.1	14.4			1.7	5.0	

Description:

This mine, located in an urban-residential area in Spring Valley, consisted of problem acreage associated with an extensively burned gob refuse area, an off-site terrestrial area, and an on-site water impoundment. The steeply sloped and severely eroded gob pile was 81 to 90 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the lower slope of the refuse pile. Runoff from the gob had affected an on-site water impoundment and an adjacent off-site terrestrial area. Potential for drainage to adjacent streams existed at the mine site.

S001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.8	2,700	415	62	0.9	17	2,600
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.5	2,700	1.2	24	76	0.7	25	4,100
Burned Gob	4.8	100	0.1	8	0.9	0.1	0.8	62
Slurry								

U006

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.9	1,110	3	0.3	0.2	0.0	240
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	5.2	300	0.1	0	1.1	0.2	1.4	240
Burned Gob	4.2	77	Tr	7	1.0	0.3	0.8	74
Slurry								

County Bureau T 16N R 11E S 35

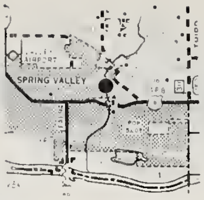
Mine Index U007 Opened 1890 Closed 1910

Environmental Locale Early Forest

Mined by Spring Valley Coal Co.

Owner Private

Gob Volume 1,200,000 Problem Area Index 132



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
11.4	11.4					

Description:

Located in a forested area in Spring Valley, this mine consisted of problem acreage associated with an extensively burned gob refuse area. The steeply sloped and severely eroded gob pile was 61 to 70 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the lower slope of the refuse pile. Potential for drainage to adjacent streams existed at the mine site.

County Bureau T 17N R 11E S 27

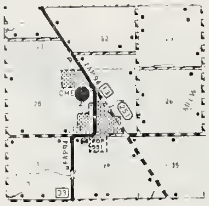
Mine Index U001 Opened 1906 Closed 1933

Environmental Locale Agricultural

Mined by St. Paul Coal Co.

Owner City of Cherry

Gob Volume 3,340,000 Problem Area Index 227



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
24.2	18.8		1.0		4.4	

Description:

This mine, located in an agricultural area near Cherry, consisted of problem acreage associated with an extensively burned gob refuse area, a tipple area, and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 80 to 90 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of the refuse pile. Buildings and foundations were present on the sparsely vegetated tipple area. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

U007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob	4.0	140	0.1	8	1.6	0.7	0.8	100
Slurry								

U001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob	5.2	100	0.1	17	11	0.4	0.8	61
Slurry								

County Christian T 11N R 1E S 15

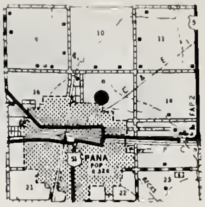
Mine Index U002 Opened 1884 Closed 1944

Environmental Locale Urban-Residential

Mined by Pana Coal Company

Owner Private

Gob Volume 26,000 Problem Area Index 48



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
2.5	1.1				1.4	

Description:

This mine, located in an urban-residential area near Pana, consisted of problem acreage associated with a partially burned gob refuse area and an adjacent off-site terrestrial area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height. Sparse ground cover vegetation was limited to the lower slope of the refuse pile. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County Christian T 11N R 1E S 16

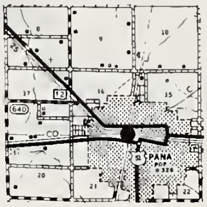
Mine Index S001 Opened 1906 Closed 1948

Environmental Locale Urban-Industrial

Mined by The Old Mine Coal Company

Owner Private

Gob Volume 8,800 Problem Area Index 19



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
5.5	5.5					

Description:

This mine, located in an urban-industrial area in Pana, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Moderate ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

U002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.5	3,400	2.5	70	49	52	1.7	4,000
Burned Gob	2.3	12,200	108	31	6,000	6,300	97	52,000
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Christian T 11N R 1E S 28

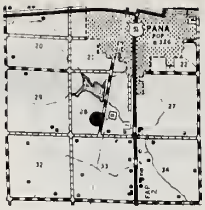
Mine Index S007 Opened 1949 Closed 1957

Environmental Locale Agricultural

Mined by Peabody Coal Company

Owner Peabody Coal Company

Gob Volume 50,000 Problem Area Index 59



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
11.9	11.9					

Description:

This mine, located in an agricultural area approximately 0.5 mile south of Pana, consisted of problem acreage associated with a gob refuse pile. Although a 174.1-acre gob pile had been graded and covered, erosion at the edge of the pile had exposed gob material from which seepage originated. As a result, a stagnant water area covered 11.9 acres of the original gob pile. No plant growth was observed on this severely eroded area.

County Christian T12N R1E S 2

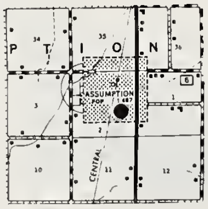
Mine Index U003 Opened 1887 Closed 1917

Environmental Locale Agricultural

Mined by Assumption Coal and Mining Company

Owner Assumption School District

Gob Volume 60,000 Problem Area Index 42



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
7.2	7.2					

Description:

This mine, located in an agricultural area near Assumption, consisted of problem acreage associated with a gob refuse area. This moderately eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover vegetation was uniformly distributed on the refuse, while light overstory vegetation was restricted to the perimeter of the refuse. A 3.6-acre tipple area was not considered to be a problem. Potential for drainage to adjacent streams was not observed.

S007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.5	25,000	960	120	2,400	0.0	19,000
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

U003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.2	530	90	0.3	0.3	0.0	110
General Runoff							
Below Mine	7.5	500	105	0.2	1.5	0.0	43
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Christian T 13N R 2W S 19

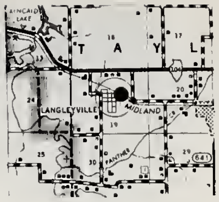
Mine Index S004 Opened 1918 Closed 1952

Environmental Locale Urban-Industrial

Mined by Peabody Coal Company

Owner Private

Gob Volume 11,000 Problem Area Index 22



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
6.9	6.9					

Description:

This mine, located in an urban-industrial area approximately 2 miles west of Taylorville, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover was scattered on the gob pile and sparse overstory vegetation was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

County Christian T 13N R 2W S 33

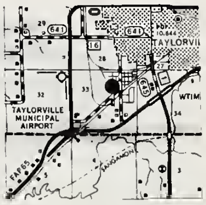
Mine Index S005 Opened 1887 Closed 1952

Environmental Locale Urban-Industrial

Mined by Peabody Coal Company

Owner Private

Gob Volume 11,000 Problem Area Index 32



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
1.7	1.7					

Description:

This mine, located in an urban-industrial area near Taylorville, consisted of problem acreage associated with a gob refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Sparse ground cover vegetation was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

S005

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.0	11,100	40	95	1,700	1,800	9.5	19,900
Burned Gob								
Slurry								

County Christian T 13N R 3W S 14

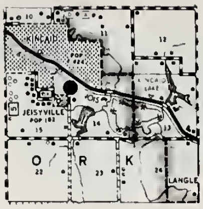
Mine Index S002 Opened 1912 Closed 1952

Environmental Locale Agricutlural

Mined by Peabody Coal Company

Owner Peabody Coal Company

Gob Volume None--graded & covered Problem Area Index 42



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.2			0.2			

Description:

This mine, located in an agricultural area near Kincaid, consisted of problem acreage associated with a small tipple area. Buildings and foundations remained on the tipple site. A 323.0-acre gob refuse area had been graded, covered, and planted to fescue (Festuca spp.). Although the graded and covered refuse area was not considered to be a problem, a small amount of seepage from the area was entering an adjacent stream.

S002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.4	14,900	375	40	1,700	0.0	390
Below Mine	5.7	2,600	230	5.0	570	5.3	1,300
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	8.4	500	0.0	0.2	0.5	0.0	44
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Clinton T 2N R 3W S 22

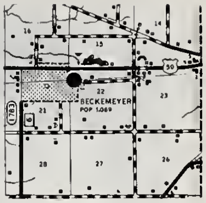
Mine Index S001 Opened 1906 Closed 1946

Environmental Locale Urban-Industrial

Mined by Breese-Trenton Coal Co.
(probably belongs to an industry)

Owner Private - according to plat book

Gob Volume 3,700 Problem Area Index 20



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.3	2.3					

Description:

This mine, located in an urban-industrial area in Beckemeyer, consisted of problem acreage associated with a gob refuse area. An industrial dump and a lumber mill was located on the barren gob refuse area which had been graded and was several inches in height. Potential for drainage to adjacent streams existed at the mine site.

County Clinton T 2N R 4W S 23

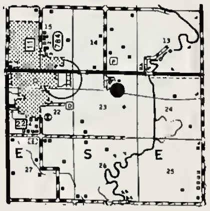
Mine Index S003 Opened 1905 Closed 1957

Environmental Locale Agricultural

Mined by Breese Coal Co. Inc.

Owner Private

Gob Volume 28,000 Problem Area Index NA



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.0						

Description:

This mine, located in an agricultural area approximately 1 mile east of Breese, consisted of disturbed acreage associated with a gob refuse area and a tipple area. The 5.8-acre uneroded gob pile averaged 3 feet in height. Poor ground cover was scattered on the refuse area. A few large trees were also growing on the refuse. The 1.0-acre tipple area supported an excellent cover of large trees and ground cover vegetation. Drainage from the mine site to an adjacent agricultural crop field had no ill effects upon existing vegetation. This site was not considered to be a problem area because dumping on the area had affected the local environment to a greater extent than the operations of the mine.

S001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	8.4	1,160	0	0.3	0.1	0.0	600
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	6.4	6,500	6.8	66	0.2	0.1	21	1,100
Burned Gob								
Slurry								

County Crawford T 6N R 11W S 27

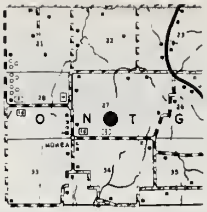
Mine Index U002 Opened -- Closed 1930

Environmental Locale Agricultural

Mined by Crawford County Coal Company

Owner Private

Gob Volume 400 Problem Area Index 17



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.9	0.2				0.7	

Description:

This mine, located in an agricultural area approximately 5 miles south of Palestine, consisted of problem acreage associated with a gob refuse area and an adjacent off-site terrestrial area. The moderately eroded gob pile, utilized as a dump, was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover and moderate overstory vegetation were restricted to the perimeter of the refuse. Runoff from the refuse had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

U002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.6	680	0.7	88	12	5.8	0.8	370
Burned Gob								
Slurry								

County Edgar T 14N R 10W S 9

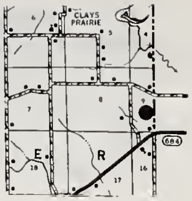
Mine Index U013 Opened -- Closed --

Environmental Locale Agricultural

Mined by Interstate Coal Co.

Owner Private

Gob Volume 114,000 Problem Area Index 74



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
12.2	3.5		1.7		7.0	

Description:

This mine, located in an agricultural area approximately 8 miles northeast of Paris, consisted of problem acreage associated with a partially burned gob refuse area, a tipple area, and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 71 to 80 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of the refuse pile. Buildings and foundations remained on the severely eroded tipple area, which supported moderate ground cover and overstory vegetation. The main shaft was open and constituted a hazard. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County Edgar T 14N R 10W S 20

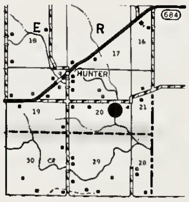
Mine Index L001 Opened 1894 Closed 1953

Environmental Locale Early Forest

Mined by Edgar Coal Co.

Owner Private

Gob Volume 3,500 Problem Area Index 19



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.2	2.2					

Description:

This mine, located in a forested area approximately 8 miles west of Paris, included problem acreage associated with a gob refuse area. This severely eroded refuse pile was less than 10 feet in height with a slope of 3 to 15 percent. Sparse ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

U013

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.0	3,000	335	37	47	3.4	830
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings	7.7	1,200	7	0.1	0.8	0.0	610
Flowing Openings							
On-site Impoundments	7.4	1,300	13	0.2	0.9	0.0	1,400
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,800	1.5	100	53	9.6	3.3	3,600
Burned Gob	3.4	1,420	0.7	27	12	1.6	0.6	1,400
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Franklin T 5S R 2E S 19

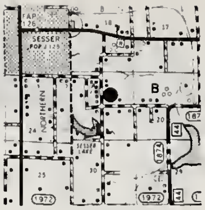
Mine Index U001 Opened 1907 Closed 1922

Environmental Locale Rural-Residential

Mined by Old Ben Coal Co.

Owner Private

Gob Volume None Problem Area Index 31



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.0						

Description:

There was no problem acreage associated with this mine located in a rural-residential area approximately 1 mile southeast of Sesser. The main shaft and an air shaft were still open and constituted hazards. A 5.0-acre tipple area and a 6.0-acre unpolluted water impoundment were located on the mine site. Potential for drainage to adjacent streams was not observed.

County Franklin T 6S R 1E S 1

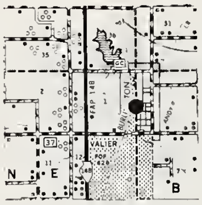
Mine Index S014 Opened 1918 Closed 1960

Environmental Locale Rural-Residential

Mined by Old Ben Coal Corporation

Owner Private

Gob Volume 305,000 Problem Area Index 264



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
151.5	37.9	29.9	44.8		37.9	1.0

Description:

Located in a rural-residential area approximately 0.5 mile north of Valier, this mine consisted of problem acreage associated with gob, slurry, tipple, off-site terrestrial, and off-site aquatic areas. Two gob refuse areas, one covering 33.9 acres and the other 4.0 acres, were present on the mine site. The largest gob pile was 31 to 40 feet in height, steeply sloped, and severely eroded; this gob was barren of vegetation. The smaller gob pile was 11 to 20 feet in height, moderately sloped, and moderately eroded. Moderate ground cover and sparse overstory vegetation were scattered on this area. Sparse ground cover was restricted to the perimeter of the slurry area which was holding surface water. A carbon recovery operation was removing refuse from the slurry. Machinery, buildings, a 0.5-mile gravel road, and a 1.0-mile railroad were present on the barren tipple. Runoff from the entire mine area had affected adjacent off-site terrestrial and aquatic areas, and potential for drainage to adjacent streams existed at the site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

S014

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.1	9,900	18,100	1,000	170	40	4,600
Below Mine #1	2.7	2,800	500	24	220	7.9	2,500
#2	7.0	540	10	0.7	2.1	1.0	320
Slurry Pools	2.4	4,200	1,900	82	390	11	2,400
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial	3.4	1,400	65	6.3	1.3	13	1,800

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	3.4	1,040	0.7	23	26	0.9	7.6	1,100
#2	2.3	8,200	49	92	1,200	5,600	22	27,000
Slurry	2.8	3,400	2.7	144	84	170	2.1	4,400

County Franklin T 6S R 2E S 4

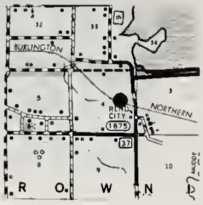
Mine Index U003 Opened 1907 Closed 1924

Environmental Locale Forest

Mined by Old Ben Coal Corp.

Owner Private

Gob Volume None Problem Area Index 29



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.0						

Description:

There was no problem acreage associated with this mine located in a forested area approximately 0.25 mile southwest of the Rend Lake dam. The main shaft into the mine was open and constituted a hazard. A 2.0-acre gob refuse area and a 1.0-acre tipple area remained at the mine site but were not problem areas.

County Franklin T 6S R 3E S 21

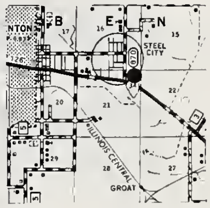
Mine Index U007 Opened 1916 Closed 1924

Environmental Locale Agricultural

Mined by U. S. Fuel Company

Owner U. S. Steel Corporation

Gob Volume 63,000 Problem Area Index 85



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
40.9	13.0				27.9	

Description:

This mine, located in an agricultural area approximately 1 mile east of Benton, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Sparse ground cover and overstory vegetation were scattered on the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area. A 15.9-acre tipple area supported a good vegetative cover and was not a problem. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	2,800	1.1	72	28	7.6	0.4	3,600
Burned Gob	4.3	2,300	0.4	43	16	0.6	0.8	3,200
Slurry	3.4	610	0.7	50	32	1.8	10	470

County Franklin T 6S R 3E S 34

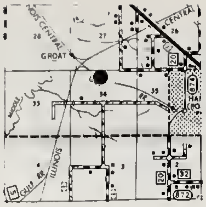
Mine Index S024 Opened 1960 Closed 1972

Environmental Locale Agricultural

Mined by Freeman Coal Mining Co.

Owner Freeman Coal Mining Co.

Gob Volume 121,000 Problem Area Index 121



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
84.8	15.0	35.9			33.9	

Description:

This mine, located in an agricultural area approximately 2 miles southeast of Benton, consisted of problem acreage associated with a partially burned gob refuse area, a slurry refuse area, and an off-site terrestrial area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height and had no vegetation. The slurry area was holding surface water and supported a poor ground cover vegetation on its perimeter. Runoff from the refuse areas had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the site. A graded and covered gob pile, a tipple area, and an unpolluted water impoundment also remained at the mine site but were not considered problems.

County Franklin T 6S R 3E S 35

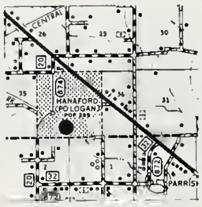
Mine Index U009 Opened 1909 Closed 1936

Environmental Locale Urban-Residential

Mined by Black Star Coal Co.

Owner Private

Gob Volume 2,000 Problem Area Index 34



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
5.0	5.0					

Description:

This mine, located in an urban-residential area approximately 5 miles southeast of Benton, consisted of problem acreage associated with a partially burned gob refuse area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were scattered on the refuse. A 3.0-acre tipple area supporting good vegetative cover was not a problem area. Potential for drainage to adjacent streams existed at the mine site.

S024

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as CaCO$_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO$_4^{-2}$ mg/l
Above Mine							
General Runoff	1.9	11,500	17,100	1,000	270	48	16,000
Below Mine							
Gob Pools	1.8	14,900	24,200	900	540	24	26,000
Slurry Pools	2.3	4,100	2,900	130	580	4.3	3,100
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.4	290	8	1.1	0.8	0.0	86
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H$^+$/100g	Pot. Acidity meq H$^+$/100g	Al ppm	Fe ppm	Mn ppm	SO$_4^{-2}$ ppm
Unburned Gob #1	2.1	13,100	104	187	2,600	12,200	18	53,000
#2	2.2	12,700	102	134	2,600	12,800	17	53,000
Slurry	2.6	4,400	7.8	94	370	220	10	6,100

U009

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as CaCO$_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO$_4^{-2}$ mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H$^+$/100g	Pot. Acidity meq H$^+$/100g	Al ppm	Fe ppm	Mn ppm	SO$_4^{-2}$ ppm
Unburned Gob	3.0	3,000	3.1	60	230	6.0	1.2	4,600
Burned Gob								
Slurry								

County Franklin T 7S R 1E S 26

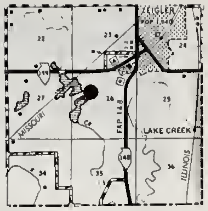
Mine Index S002 Opened 1918 Closed 1951

Environmental Locale Early Forest

Mined by Bell and Zoller Coal Co.

Owner Zeigler Coal Co.

Gob Volume 17,000 Problem Area Index 197



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
206.2	61.8	99.6	16.9		27.9	

Description:

This mine, located in a forested area approximately 0.5 mile southwest of Zeigler, consisted of problem acreage associated with gob, slurry, tipple, and off-site terrestrial areas. The moderately sloped and eroded gob area, which had been graded, was 11 to 20 feet in height. Moderate ground cover was uniformly distributed on the refuse, and a few scattered trees were also present. The slurry area supported uniformly distributed but poor ground cover and sparse overstory vegetation. Foundations, buildings, and a 0.5-mile gravel road were present on the tipple area, which supported vegetation similar to that growing on the gob refuse area. Runoff from the gob and slurry areas had affected an adjacent off-site terrestrial area. Two water impoundments were present at the mine site; the larger impoundment was being used for recreational purposes. Potential for drainage to adjacent streams was not observed.

County Franklin T 7S R 1E S 28

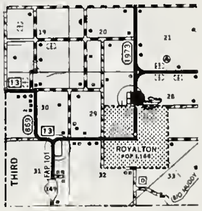
Mine Index S007 Opened 1907 Closed 1951

Environmental Locale Urban-Residential

Mined by Franklin County Coal Co.

Owner Cobins Salvage Company

Gob Volume 2,500 Problem Area Index 48



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
60.7	30.9	10.0	12.0		7.8	

Description:

This mine, which was located in an urban-residential area north of Royalton, consisted of problem acreage associated with gob, slurry, tipple, and off-site terrestrial areas. The moderately sloped and eroded gob pile was 11 to 20 feet in height. Good ground cover was uniformly distributed on the refuse, and a few scattered trees were also present. The severely eroded slurry area was holding surface water and supported poor ground cover vegetation on its perimeter. Foundations, buildings, and a 0.3-mile gravel road remained on the tipple area, which supported good vegetative cover. Runoff from the gob and slurry areas had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed. An 11.0-acre unpolluted water impoundment, used for recreational purposes, was also present on the site.

S002

Drainage Samples

Sample Type		pH	Conductivity micro-mhos/cm	Total Acidity mg/l as CaCO$_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO$_4^{-2}$ mg/l
Above Mine								
General Runoff								
Below Mine								
Gob Pools								
Slurry Pools								
Flooded Openings								
Flowing Openings								
On-site Impoundments	#1	7.5	420	6	0.1	0.8	0.5	200
	#2	6.9	560	19	1.4	2.9	8.1	590
Off-site Terrestrial		2.9	3,500	680	94	3.5	20	1,100

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H$^+$/100g	Pot. Acidity meq H$^+$/100g	Al ppm	Fe ppm	Mn ppm	SO$_4^{-2}$ ppm
Unburned Gob	3.1	2,500	1.4	64	74	2.6	0.8	3,200
Burned Gob								
Slurry	3.8	200	0.2	159	0.3	1.0	0.8	72

S007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as CaCO$_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO$_4^{-2}$ mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools	7.6	1,110	6	0.2	0.5	0.0	320
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.7	2,300	4	0.1	0.2	0.0	2,400
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H$^+$/100g	Pot. Acidity meq H$^+$/100g	Al ppm	Fe ppm	Mn ppm	SO$_4^{-2}$ ppm
Unburned Gob	4.2	2,400	0.3	70	3.3	0.2	9.4	3,400
Burned Gob								
Slurry	7.7	1,190	Tr	211	0.1	0.2	1.2	1,600

County Franklin T 7S R 2E S 13

Mine Index S004 Opened 1924 Closed 1960

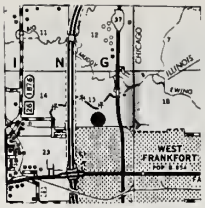
Environmental Locale Forest

Mined by Chicago-Wilmington & Franklin Coal Co.

Tipple area owned by Freeman Coal

Owner LaSalle National Bank & Trust Co.

Gob Volume 506,000 Problem Area Index 240



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
170.4	97.7	17.9		12.0	42.8	

Description:

This mine, located in a forested area at the northern limits of West Frankfort, included problem acreage associated with two gob refuse areas, a slurry area, a water impoundment, and an off-site terrestrial area. The largest gob area, which was severely eroded, was less than 10 feet high with a slope of 3 to 15 percent. Moderate ground cover and sparse overstory vegetation were scattered on this refuse area. The smaller gob area was 21 to 30 feet in height, steeply sloped, and severely eroded. Sparse ground cover was scattered on this refuse. The slurry area was holding surface water, and poor ground cover was restricted to the perimeter of the refuse area. Runoff from the gob refuse and the slurry refuse had affected an adjacent off-site terrestrial area and an on-site water impoundment. Potential for drainage to adjacent streams existed at the site. A 28.9-acre tipple area, which was not a problem, was also present.

County Franklin T 7S R 3E S 8

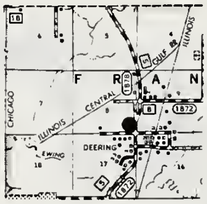
Mine Index S012 Opened 1905 Closed 1949

Environmental Locale Agricultural

Mined by Peabody Coal Company

Owner Private

Gob Volume 116,000 Problem Area Index 121



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
55.8	23.9	21.9			10.0	

Description:

This mine, located in an agricultural area approximately 1 mile northeast of West Frankfort, included problem acreage associated with gob, slurry, and off-site terrestrial areas. The severely eroded gob pile was 11 to 20 feet high with a 3 to 15 percent slope. Sparse ground cover was scattered on the gob refuse area. Sparse ground cover vegetation was restricted to the perimeter of the moderately eroded slurry area. Runoff from the gob and slurry had affected an adjacent off-site terrestrial area; potential for drainage to adjacent streams existed. A 6.0-acre tipple area at the mine site was not a problem.

S004

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools	2.0	7,300	9,400	120	25	13	4,700
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.1	1,170	48	0.1	0.7	0.0	1,900
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.7	4,000	4.9	45	270	19	0.8	5,200
Burned Gob								
Slurry	3.2	2,600	1.0	101	20	9.8	3.0	3,900

S012

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	6.1	2,700	39	1.9	80	4.4	910
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,500	0.6	178	10	4.2	5.6	3,500
Burned Gob								
Slurry	3.0	2,800	0.9	151	11	13	1.2	3,900

County Franklin T 7S R 3E S 18

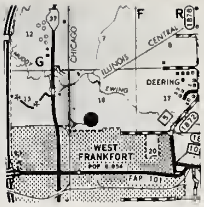
Mine Index U011 Opened 1907 Closed 1936

Environmental Locale Urban-Residential

Mined by Peabody Coal Company

Owner Arklamo Farms, Inc.

Gob Volume 9,700 Problem Area Index 36



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
4.0	3.0				1.0	

Description:

This mine, located in urban-residential area near West Frankfort, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Part of the refuse had been removed. Sparse ground cover vegetation was scattered on the refuse area. Runoff from the gob had affected an adjacent off-site terrestrial area. A 22.9-acre tipple area, supporting excellent vegetative cover, and two unpolluted water impoundments were present on the mine site. Potential for drainage to adjacent streams was not observed.

County Franklin T 7S R 3E S 20

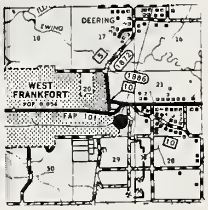
Mine Index S020 Opened 1914 Closed 1968

Environmental Locale Urban - Residential

Mined by Old Ben Coal Corporation

Owner Old Ben Coal Corporation

Gob Volume 787,000 Problem Area Index 267



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
158.2	48.8	29.7	18.9		60.8	

Description:

This mine, located in an urban - residential area near West Frankfort, consisted of problem acreage associated with a partially burned gob refuse area, a slurry refuse area, a tipple area, and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height. Sparse ground cover vegetation was restricted to the lower slope of the gob pile. The slurry area was holding surface water and supported poor ground cover vegetation on its perimeter. Buildings, foundations, and a 0.9-mile gravel road remained on the tipple area, which supported a good vegetative cover. Runoff from the gob and slurry had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

U011

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.6	4,700	650	64	38	8.2	1,600
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments #1	9.6	380	0	0.1	0.3	0.0	150
#2	8.4	460	0	0.2	0.5	0.0	280
Off-site Terrestrial	5.4	1,000	40	0.2	2.3	6.0	440

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

S020

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.5	8,000	5,100	360	780	32	4,900
Below Mine #1	3.0	2,400	275	10	78	5.7	560
#2	3.7	1,890	165	16	1.5	14	1,400
#3	2.5	7,500	4,800	340	1,400	17	3,800
Slurry Pools	2.8	2,400	315	11	120	1.6	1,500
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial	2.4	7,100	5,400	450	870	21	7,400

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.1	160	0.1	104	0.2	0.3	0.4	100
Burned Gob	4.1	2,300	0.3	7	8.1	0.6	0.5	3,300
Slurry	2.8	3,300	2.3	109	81	44	3.6	4,400

County Fulton T 3N R 1E S 23

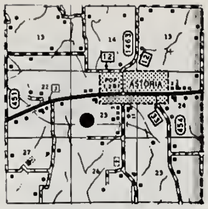
Mine Index L186 Opened 1941 Closed 1942

Environmental Locale Agricultural

Mined by H. G. & L. Coal Co.

Owner Private

Gob Volume 4,000 Problem Area Index 23



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.5	0.5					

Description:

This mine, located in an agricultural area approximately 0.25 mile south of Astoria, consisted of problem acreage associated with a partially burned gob refuse area. The gob pile was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover and moderate overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent off-site terrestrial areas existed at the mine.

County Fulton T 5N R 3E S 15

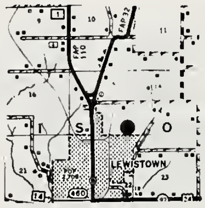
Mine Index U244 Opened -- Closed --

Environmental Locale Grasses and Herbs

Mined by Unknown

Owner Private

Gob Volume 1,600 Problem Area Index 16



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.3	0.3					

Description:

A small refuse area with associated problem acreage was all that remained of this mine, located at the north edge of Lewistown. The barren refuse pile was less than 10 feet in height with a 3 to 15 percent slope. Potential for drainage to adjacent off-site terrestrial areas existed at the mine.

L186

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,600	0.6	94	8.3	1.8	0.4	3,400
Burned Gob								
Slurry								

U244

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	3,200	1.8	43	110	1.8	30	5,100
Burned Gob								
Slurry								

County Fulton T 5N R 3E S 18

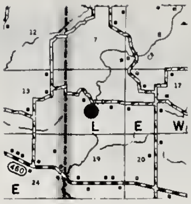
Mine Index U254 Opened -- Closed --

Environmental Locale Early Forest

Mined by Unknown

Owner Private

Gob Volume 1,600 Problem Area Index 18



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 2 miles northwest of Lewistown. The barren gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Potential for drainage to adjacent off-site terrestrial areas existed at the mine site.

County Fulton T 5N R 3E S 23

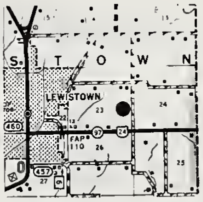
Mine Index U250 Opened -- Closed --

Environmental Locale Agricultural

Mined by Yocum & Sons

Owner Private

Gob Volume 2,400 Problem Area Index 21



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 1 mile east of Lewistown. This barren gob pile was less than 10 feet in height with a 3 to 15 percent slope. Potential for drainage to adjacent off-site terrestrial areas existed at the mine site.

U254

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.1	740	0.6	102	6.9	4.6	0.2	340
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 5N R 4E S 12

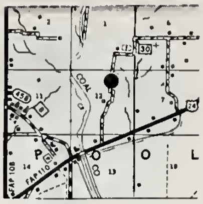
Mine Index U074 Opened -- Closed 1939

Environmental Locale Early Forest

Mined by Liverpool Coal Co.

Owner Private

Gob Volume None Problem Area Index 27



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.1			0.1			

Description:

This mine, located in a forested area approximately 8 miles south of Canton, was considered to be a problem area because an open shaft existed on the abandoned tipple area and constituted a hazard. The tipple area was being utilized as a dump.

County Fulton T 5N R 4E S 13

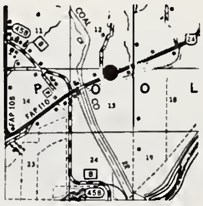
Mine Index L026 Opened 1939 Closed 1947

Environmental Locale Herbs-Shrubs-Trees

Mined by Bennet Coal Co.

Owner Private

Gob Volume 200 Problem Area Index 41



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.3	0.2				0.1	

Description:

This mine, located approximately 8 miles east of Lewistown, consisted of problem acreage associated with a small gob refuse area and an adjacent off-site terrestrial area. The gob refuse area was nearly flat and averaged 6 inches in height. Good ground cover vegetation was restricted to the perimeter of the gob area, and sparse overstory vegetation was scattered on the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams existed at the mine site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

L026

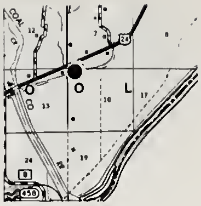
Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	7.1	3,500	37	0.0	6.0	1.3	2,500
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Fulton T 5N R 5E S 7
Mine Index U077 Opened -- Closed --
Environmental Locale Herbs-Shrubs-Trees
Mined by Cimo Mine #1
Owner Private
Gob Volume 5,800 Problem Area Index 20



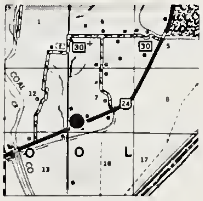
Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.6	0.5				0.1	

Description:

This mine, located approximately 10 miles southeast of Canton, consisted of problem acreage associated with a gob refuse area and an adjacent off-site terrestrial area. The refuse pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were restricted to the lower slope of the refuse. Runoff from the gob pile had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County Fulton T 5N R 5E S 7
Mine Index U076 Opened -- Closed --
Environmental Locale Herb - Shrubs - Trees
Mined by Cimo Mine #2
Owner Private
Gob Volume 1,000 Problem Area Index 15



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.5	0.4				0.1	

Description:

This mine, located approximately 10 miles southeast of Canton, consisted of problem acreage associated with a gob refuse area and an adjacent off-site terrestrial area. The nearly flat gob area averaged 3 feet in height. Good ground cover and overstory vegetation were scattered on the refuse. Runoff from the refuse had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

U077

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	8.2	890	0.0	0.2	0.8	0.0	890
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	2,800	1.0	136	31	14	4.5	3,700
Burned Gob								
Slurry								

U076

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.1	540	0.2	175	1.5	0.6	7.3	480
Burned Gob								
Slurry								

County Fulton T 5N R 5E S 7

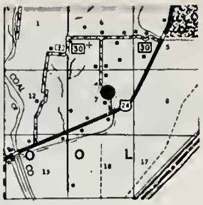
Mine Index L198 Opened 1945 Closed 1961

Environmental Locale Early Forest

Mined by Pine Bluff Coal Co.

Owner Private

Gob Volume 600 Problem Area Index 18



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.7	0.2		0.5			

Description:

This mine, located in a forested area approximately 9 miles southeast of Canton, consisted of problem acreage associated with a gob refuse area and a tipple area. The moderately sloped gob pile was less than 10 feet in height. Sparse ground cover and moderate overstory vegetation were scattered on the refuse. Foundations and buildings remained on the tipple area which supported a sparse vegetative cover. Potential for drainage to adjacent streams existed at the mine site.

County Fulton T 5N R 5E S 7

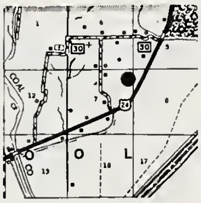
Mine Index U073 Opened -- Closed 1942

Environmental Locale Early Forest

Mined by D. Thomas

Owner Private

Gob Volume None Problem Area Index 39



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.1					0.1	

Description:

This mine, located in a forested area approximately 10 miles southeast of Canton, had reverted to a natural condition. However, seepage from the old mine works had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.9	3,000	1.3	110	16	21	3.2	4,000
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 6N R 3E S 7

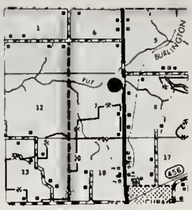
Mine Index L192 Opened 1941 Closed 1957

Environmental Locale Agricultural

Mined by Putt Creek Coal Co.

Owner Private

Gob Volume 8,100 Problem Area Index 27



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
3.4	2.5		0.6		0.3	

Description:

This mine, located in an agricultural area approximately 2 miles north of Cuba, consisted of problem acreage associated with gob, tipple, and off-site terrestrial areas. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were present on the refuse. Machinery, buildings, and a 0.1-mile gob road remained on the tipple area. Runoff from the gob and tipple areas had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County Fulton T 6N R 3E S 8

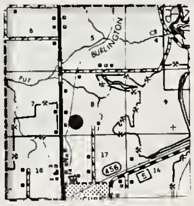
Mine Index U032 Opened -- Closed --

Environmental Locale Early Forest

Mined by Unknown

Owner Private

Gob Volume None Problem Area Index 55



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.1			0.1			

Description:

A tipple area with associated problem acreage was all that remained of this mine located in a forested area approximately 7 miles west of Canton. Buildings and foundations remained on the area which supported a sparse vegetative cover. Seepage from the old mine works was observed flowing into an adjacent stream.

L192

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.1	2,700	0.9	98	40	5.4	1.4	3,700
Burned Gob								
Slurry								

U032

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	5.7	3,200	240	2.0	28	6.7	2,000
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Fulton T 6N R 3E S 8

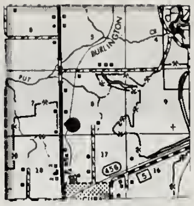
Mine Index U033 Opened -- Closed --

Environmental Locale Early Forest

Mined by Unknown

Owner Private

Gob Volume 300 Problem Area Index 17



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.1	0.1					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 7 miles west of Canton. This small gob pile was less than 10 feet in height with a 3 to 15 percent slope. Sparse ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed.

County Fulton T 6N R 3E S 8

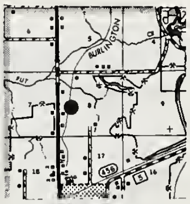
Mine Index U065 Opened 1908 Closed 1919

Environmental Locale Early Forest

Mined by Star Coal Company

Owner Private

Gob Volume 1,000 Problem Area Index 18



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 7 miles southwest of Canton. The gob pile was less than 10 feet in height with a 3 to 15 percent slope. Sparse ground cover vegetation was scattered on the refuse, and heavy overstory vegetation was uniformly distributed on the area. Potential for drainage to adjacent streams existed at the site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U065

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	1,550	0.5	191	5.3	2.3	0.4	1,700
Burned Gob								
Slurry								

County Fulton T 6N R 3E S 16

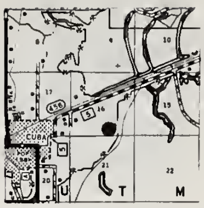
Mine Index L101 Opened 1937 Closed 1950

Environmental Locale Strip Mine-inactive

Mined by Carter Coal Co.

Owner Private

Gob Volume 7,700 Problem Area Index 18



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
2.2	1.6		0.1		0.3	0.2

Description:

This mine, located in the vicinity of an inactive strip-mine approximately 1 mile east of Cuba, consisted of problem acreage associated with a partially burned gob refuse area, a tipple area, an off-site terrestrial area, and an off-site aquatic area. The severely eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Machinery, buildings, and a 0.1-mile gob road remained on the tipple area. Runoff from the gob and tipple areas had affected both off-site terrestrial and aquatic areas. Potential for drainage to adjacent streams was not observed.

County Fulton T 6N R 3E S 17

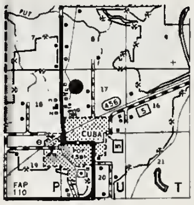
Mine Index U035 Opened -- Closed --

Environmental Locale Early Forest

Mined by Unknown

Owner Private

Gob Volume 300 Problem Area Index 17



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
0.3	0.1		0.2			

Description:

This mine, located in a forested area approximately 8 miles southwest of Canton, consisted of problem acreage associated with a gob refuse area and a tipple area. The small gob pile was less than 10 feet in height with a 3 to 15 percent slope. Good ground cover was uniformly distributed on the refuse. Buildings and foundations remained on the abandoned tipple area, which supported a good vegetative cover. Potential for drainage to adjacent streams existed at the mine.

L101

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,500	0.6	263	4.2	7.4	2.1	3,300
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 6N R 3E S 19

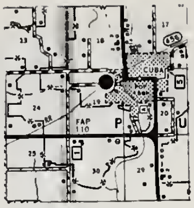
Mine Index U037 Opened -- Closed --

Environmental Locale Agricultural

Mined by Water Lily

Owner Private

Gob Volume 1,900 Problem Area Index 21



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.2	1.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 9 miles southwest of Canton. The uneroded gob pile averaged 1 foot in height. Good ground cover was uniformly distributed on the refuse. Potential for drainage to adjacent streams existed at the site.

County Fulton T 6N R 3E S 25

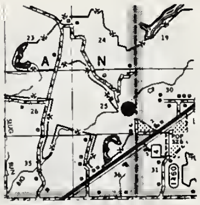
Mine Index L116 Opened 1938 Closed --

Environmental Locale Early Forest

Mined by Linquist and Taylor

Owner Metropolitan Sanitary District of Greater Chicago

Gob Volume 200 Problem Area Index 17



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 7 miles southwest of Canton. The gob pile was less than 10 feet in height with a 3 to 15 percent slope. Moderate ground cover and overstory vegetation were uniformly distributed on the refuse area. Potential for drainage to adjacent streams existed at the mine site.

U037

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.8	890	0.2	112	2.8	0.9	1.1	900
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 6N R 3E S 29

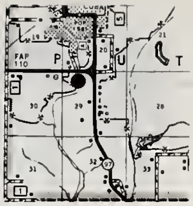
Mine Index U041 Opened -- Closed --

Environmental Locale Agricultural

Mined by Unknown

Owner Private

Gob Volume 800 Problem Area Index 19



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
0.5	0.5					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 9 miles southwest of Canton. The gob pile was nearly flat and averaged 1 foot in height. Moderate ground cover vegetation was restricted to the perimeter of the area. Potential for drainage to adjacent streams existed at the mine.

County Fulton T 6N R 4E S 16

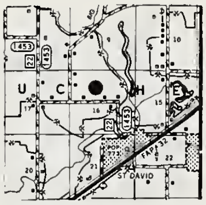
Mine Index U107 Opened -- Closed --

Environmental Locale Strip Mine-inactive

Mined by Unknown

Owner Private

Gob Volume 300 Problem Area Index 9



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
0.1	0.1					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in the vicinity of an inactive strip mine approximately 2 miles south of Canton. The refuse area was less than 10 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams existed at the mine site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U107

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.8	2,300	0.3	225	6.7	1.5	2.5	3,400
Burned Gob								
Slurry								

County Fulton T 6N R 4E S 31

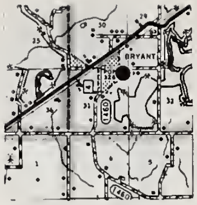
Mine Index U112 Opened 1890 Closed --

Environmental Locale Rural-Residential

Mined by Bryant Coal Co.

Owner Private

Gob Volume 300 Problem Area Index 21



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.1	0.1					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a rural-residental area approximately 8 miles southwest of Canton. The refuse pile was less than 10 feet in height with a 3 to 15 percent slope. Moderate ground cover and light overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams existed at the site.

County Fulton T 6N R 5E S 29

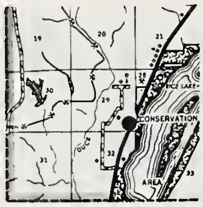
Mine Index U071 Opened -- Closed --

Environmental Locale Herbs-Shrubs-Trees

Mined by Unknown

Owner Private

Gob Volume None Problem Area Index 25



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.0						

Description:

This mine, located approximately 8 miles southeast of Canton, was considered a problem because the main shaft had not been sealed and, therefore, constituted a health hazard. The rest of the 0.1-acre tipple area was not considered to be an environmental problem.

U112

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.7	2,400	0.6	185	24	0.5	23	3,400
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 7N R 1E S 14

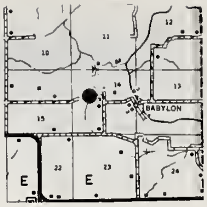
Mine Index U184 Opened -- Closed --

Environmental Locale Agricultural

Mined by Unknown

Owner private

Gob Volume 1,300 Problem Area Index 21



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.4	0.4					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 18 miles west of Canton. The moderately sloped and severely eroded refuse pile was less than 10 feet in height. Moderate ground cover and overstory vegetation were scattered on the refuse area. Potential for drainage to adjacent streams existed at the mine site.

County Fulton T 7N R 1E S 14

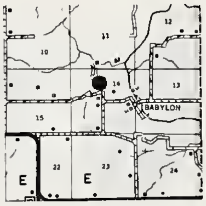
Mine Index U188 Opened -- Closed --

Environmental Locale Agricultural

Mined by Unknown

Owner Private

Gob Volume 6,500 Problem Area Index 27



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.5	0.5					

Description:

This mine, located in an agricultural area approximately 18 miles west of Canton, consisted of problem acreage associated with a gob refuse area. The severely eroded refuse pile was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were scattered on the refuse area. Potential for drainage to adjacent streams and off-site terrestrial areas existed at the site.

U184

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	7.2	740	2	0.2	0.6	0.0	450
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

U188

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	2.6	3,330	2,300	150	56	3.6	1,800
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Fulton T 7N R 1E S 14

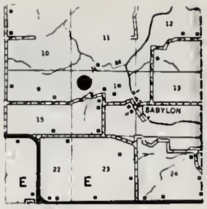
Mine Index U189 Opened -- Closed --

Environmental Locale Agricultural

Mined by Unknown

Owner Private

Gob Volume 300 Problem Area Index 18



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 18 miles west of Canton. The nearly level, severely eroded gob pile was less than 10 feet high and had no vegetation. Potential for drainage to adjacent off-site terrestrial areas existed at the site.

County Fulton T 7N R 2E S 27

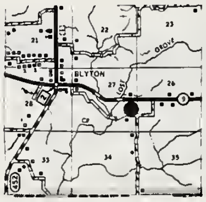
Mine Index L099 Opened 1938 Closed 1939

Environmental Locale Agricultural

Mined by Turkey Creek Coal Company

Owner Private

Gob Volume 6,100 Problem Area Index 27



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.9	1.9					

Description:

This mine, located in an agricultural area approximately 11 miles west of Canton, consisted of problem acreage associated with a gob refuse area. This severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams existed at the mine site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 7N R 4E S 3

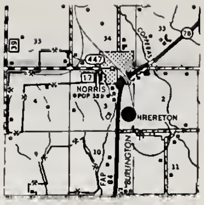
Mine Index S010 Opened 1936 Closed 1961

Environmental Locale Urban-Industrial

Mined by Pshirrer Coal Co.

Owner Pshirrer Coal & Asphalt Co.

Gob Volume 34,000 Problem Area Index 29



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
3.4	1.4		2.0			

Description:

This mine, located in an urban-industrial area 3 miles north of Canton, consisted of problem acreage associated with a partially burned gob refuse area and a tipple area. The severely eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were restricted to the lower slope of the refuse. Machinery, buildings, a 0.4-mile gob road, and a 0.2-mile railroad remained on the tipple area. Potential for drainage to adjacent streams was not observed.

County Fulton T 7N R 4E S 27

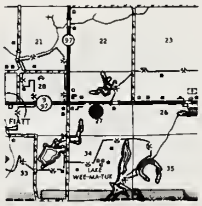
Mine Index U171 Opened -- Closed --

Environmental Locale Strip Mine Inactive

Mined by Ketchum Whitehead

Owner Private

Gob Volume 1,000 Problem Area Index 10



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in the vicinty of an inactive strip mine approximately 5 miles west of Canton. The moderately eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Good ground cover vegetation was uniformly distributed on the refuse. Potential for drainage to adjacent streams existed at the site.

S010

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	1.8	24,000	99	258	1,200	15,900	12	55,000
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 7N R 5E S 13

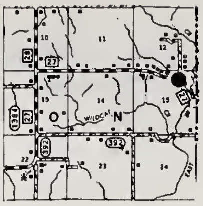
Mine Index L086 Opened 1927 Closed --

Environmental Locale Forest

Mined by Fothergill Coal Company

Owner Private

Gob Volume None Problem Area Index 27



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.0						

Description:

This mine, located in a forested area approximately 8 miles east of Canton, was considered to be a problem due to an unsealed air shaft which constituted a hazard. The mine site was supporting an excellent vegetative cover.

County Fulton T 7N R 5E S 24

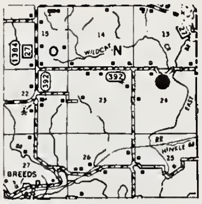
Mine Index L057 Opened 1927 Closed 1957

Environmental Locale Herbs-Shrubs-Trees

Mined by A. Malmgren Coal Company

Owner Private

Gob Volume 100 Problem Area Index 14



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.1	0.1					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located approximately 6 miles east of Canton. The nearly level refuse area averaged 6 inches in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse area. Potential for drainage to adjacent streams existed at the mine site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 7N R 5E S 30

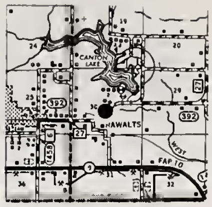
Mine Index L184 Opened 1921 Closed --

Environmental Locale Rural-Residential

Mined by Wm. M. Terrell

Owner Private

Gob Volume 1,300 Problem Area Index 48



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
0.7	0.2		0.5			

Description:

This mine, located in a rural-residential area 1 mile east of Canton, consisted of problem acreage associated with a gob refuse area and a tipple area. The gob pile was less than 10 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Machinery and buildings remained on the tipple area. Continuous seepage from the old mine works was flowing into an adjacent stream.

County Fulton T 8N R 1E S 10

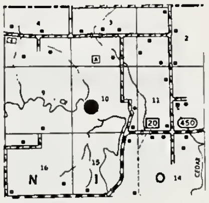
Mine Index L028 Opened 1930 Closed 1948

Environmental Locale Early Forest

Mined by Cedar Creek Coal Company

Owner Private

Gob Volume 4,800 Problem Area Index 25



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
0.5	0.5					

Description:

This mine, located in a forested area approximately 3 miles northeast of Avon, consisted of problem acreage associated with a gob refuse area. This moderately sloped and severely eroded gob pile was less than 10 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams and off-site terrestrial areas existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

L184

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings	6.8	3,600	150	2.0	33	1.5	2,700
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	2,400	0.8	187	7.1	6.6	0.8	2,800
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 8N R 2E S 15

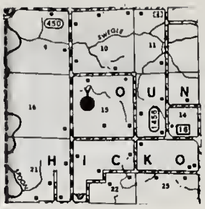
Mine Index U199 Opened -- Closed 1943

Environmental Locale Agricultural

Mined by Spoon River Coal Co.

Owner Private

Gob Volume 1,600 Problem Area Index 21



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.5	0.5					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 2 miles south of London Mills. This moderately eroded gob pile, which had been graded, was less than 10 feet in height; poor ground cover vegetation was restricted to its perimeter. Potential for drainage to adjacent streams existed at the mine site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 8N R 2E S 28

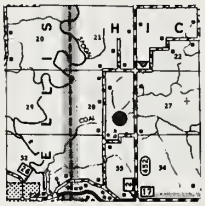
Mine Index U207 Opened -- Closed 1957

Environmental Locale Early Forest

Mined by Coal Creek

Owner Private

Gob Volume 9,700 Problem Area Index 24



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.0	1.0					

Description:

This mine, located in a forested area approximately 1.5 miles northeast of Ellisville, consisted of problem acreage associated with a gob refuse area. This moderately sloped and severely eroded gob pile was less than 10 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the perimeter of the gob. Potential for drainage to adjacent off-site areas existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 8N R 2E S 28

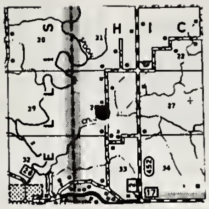
Mine Index U197 Opened -- Closed 1925

Environmental Locale Agricultural

Mined by Spoon River Colliery Corp.

Owner Private

Gob Volume 2,400 Problem Area Index 22



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
0.8	0.3		0.5			

Description:

This mine, located in an agricultural area approximately 1 mile northeast of Ellisville, consisted of problem acreage associated with a partially burned gob refuse area and a tipple area. The gob pile was less than 10 feet in height with a 3 to 15 percent slope. Moderate ground cover and sparse overstory vegetation were scattered on the refuse area. Buildings and foundations remained on the barren tipple area. Potential for drainage to adjacent off-site terrestrial areas existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 8N R 2E S 32

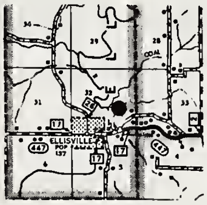
Mine Index U195 Opened -- Closed --

Environmental Locale Early Forest

Mined by Daliefied

Owner Private

Gob Volume 1,600 Problem Area Index 18



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
0.5	0.5					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area near Ellisville. The severely eroded refuse pile was nearly flat and averaged 2 feet in height. Moderate ground cover and sparse overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent off-site terrestrial areas existed at the mine site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Fulton T 8N R 4E S 1

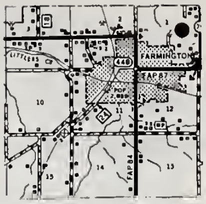
Mine Index U096 Opened -- Closed 1922

Environmental Locale Agricultural

Mined by Wekstenly Brothers

Owner Private

Gob Volume 100 Problem Area Index 18



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
0.1	0.1					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 10 miles north of Canton. The refuse area averaged less than 1 foot in height. Moderate ground cover vegetation was scattered on the refuse area, and moderate overstory vegetation was uniformly distributed over the area. Potential for drainage to adjacent streams existed at the mine.

County Fulton T 8N R 4E S 3

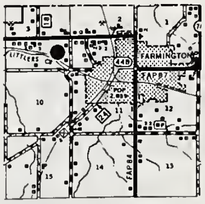
Mine Index U093 Opened -- Closed --

Environmental Locale Agricultural

Mined by Kickapoo Coal Co.

Owner Private

Gob Volume 29,000 Problem Area Index 37



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
1.0	0.7				0.3	

Description:

This mine, located in an agricultural area approximately 9 miles north of Canton, consisted of problem acreage associated with a gob refuse area and an adjacent off-site terrestrial area. The steeply sloped and severely eroded refuse pile was 31 to 40 feet in height. Good ground cover vegetation was uniformly distributed on the refuse area; a few trees were present on the lower slope. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U093

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.6	2,400	0.1	104	4.1	0.8	15	3,400
Burned Gob								
Slurry								

County Fulton T 8N R 4E S 15

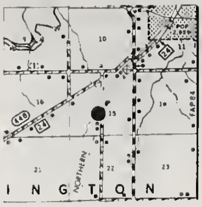
Mine Index U091 Opened 1905 Closed 1915

Environmental Locale Agricultural

Mined by Maplewood Coal Co.

Owner Private

Gob Volume 5,500 Problem Area Index 22



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
1.7	1.7					

Description:

This mine, located in an agricultural area approximately 7 miles north of Canton, consisted of problem acreage associated with a gob refuse area. The gob pile was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were restricted to its perimeter. Potential for drainage to adjacent streams was not observed.

County Fulton T 8N R 4E S 27

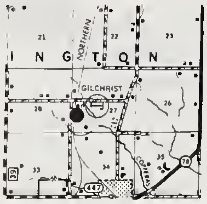
Mine Index U151 Opened -- Closed 1925

Environmental Locale Agricultural

Mined by Alder Coal Co.

Owner Private

Gob Volume 226,000 Problem Area Index 79



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
7.4	4.0		3.4			

Description:

This mine, located in an agricultural area approximately 5 miles north of Canton, consisted of problem acreage associated with a partially burned gob refuse area and a tipple area. The steeply sloped gob refuse area was 31 to 40 feet in height. Moderate ground cover vegetation was uniformly distributed on the refuse area, and sparse overstory vegetation was restricted to the lower slope of the gob. The main mine shaft, located on the tipple area, was unsealed and constituted a hazard. Buildings, foundations, and a 0.2-mile road also remained on the excellently vegetated tipple area. Potential for drainage to adjacent streams was not observed.

U091

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	7.7	290	Tr	76	2.8	1.0	0.7	110
Burned Gob								
Slurry								

U151

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	7.8	2,500	Tr	59	1.0	0.6	1.3	3,500
Burned Gob								
Slurry								

County Gallatin T 9S R 8E S 13

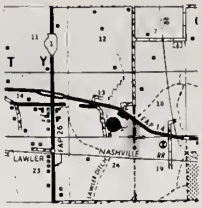
Mine Index L002 Opened 1930 Closed 1967

Environmental Locale Forest

Mined by B. & W. Coal Co.

Owner Private

Gob Volume 3,600 Problem Area Index 33



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
7.2	4.5		2.4		0.3	

Description:

This mine, located in a forested area approximately 4 miles east of Equality, consisted of problem acreage associated with gob, tipple, and off-site terrestrial areas. The average height of this severely eroded gob pile was only 6 inches. Sparse ground cover and overstory vegetation were present on the refuse. Machinery and buildings remained on the moderately eroded tipple area. A 1.0-acre unpolluted water impoundment also remained on the site. Runoff from the gob refuse area had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed.

County Gallatin T 9S R 8E S 16

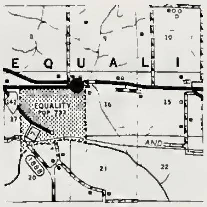
Mine Index L004 Opened 1917 Closed 1958

Environmental Locale Rural-Residential

Mined by Pekin Coal Co.

Owner Private

Gob Volume 2,600 Problem Area Index 26



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.6	1.6					

Description:

Problem acreage at this mine, located in a rural-residential area at the northwest city limits of Equality, was associated with a gob refuse pile. This severely eroded refuse area averaged 1 foot in height. Sparse ground cover vegetation was scattered on the gob. Potential for drainage to adjacent streams existed at the mine site. A 5.6-acre gob refuse area had been covered and was being used as a storage yard for gravel.

L002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.9	600	5	0.1	0.9	0.0	45
General Runoff	7.7	710	15	0.3	0.7	0.0	31
Below Mine	7.4	640	8	0.2	0.4	0.0	49
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	8.2	330	0	0.2	0.8	0.0	310
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	330	0.3	38	0.6	1.7	0.0	110
Burned Gob								
Slurry								

L004

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	4.0	2,100	180	16	160	12	450
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	3,400	2.6	63	120	51	1.2	4,200
Burned Gob								
Slurry								

County Gallatin T 10S R 8E S 15

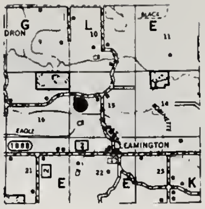
Mine Index L010 Opened 1923 Closed 1953

Environmental Locale Forest

Mined by Green Hill Coal Co.

Owner Private

Gob Volume None Problem Area Index 28



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
0.0						

Description:

An unsealed main shaft constituted a hazard at this mine located in a forested area approximately 6 miles southeast of Equality. A small amount of gob remaining at the site was not a problem.

County Gallatin T 10S R 8E S 16

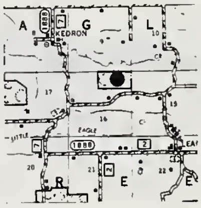
Mine Index U080 Opened -- Closed --

Environmental Locale Forest

Mined by Unknown

Owner Shawnee National Forest

Gob Volume None Problem Area Index 43



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
1.2					1.2	

Description:

Problem acreage at this site, located in a forested area approximately 5 miles south of Equality, was limited to an off-site terrestrial area. Continuous drainage from a coal prospecting drill hole, which had probably penetrated an abandoned underground works, was affecting a nearby area. Apparently, this was not the site of surface disturbance associated with an abandoned underground mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U080

Drainage Samples

Sample Type		pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine		6.3	480	24	0.2	0.8	0.0	200
General Runoff								
Below Mine	#1	3.1	2,700	600	18	1,200	4.0	3,400
	#2	3.2	3,400	290	12	480	4.8	990
Slurry Pools								
Flooded Openings								
Flowing Openings		6.2	3,400	500	21.0	490	4.5	1,100
On-site Impoundments								
Off-site Aquatic								
Off-site Terrestrial								

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Gallatin T 10S R 8E S 23

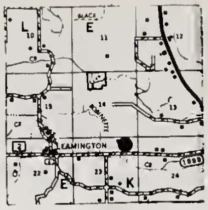
Mine Index L089 Opened 1949 Closed ---

Environmental Locale Forest

Mined by L. & W. Coal Co.

Owner Private

Gob Volume None Problem Area Index 40



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.0						

Description:

Continuous flow from a shaft to adjacent streams constituted a problem at this mine site located in a forested area approximately 2 miles northwest of the Pounds Hollow Recreation Area. No other disturbance was evident at the mine site.

County Gallatin T 10S R 9E S 19

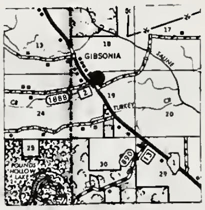
Mine Index L003 Opened -- Closed --

Environmental Locale Strip Mine-inactive

Mined by Cedar Hill Coal Co.

Owner Peabody Coal Co.

Gob Volume None Problem Area Index 17



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.0						

Description:

An unsealed air shaft which constituted a hazard was all that remained of this mine. It was located in the vicinity of an inactive strip-mine approximately 1.5 miles northwest of Pounds Hollow Recreation Area.

L089

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	2.4	3,800	740	29	170	9.0	2,800
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	2.8	4,000	880	30	630	4.7	2,500
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Gallatin T 10S R 9E S 27

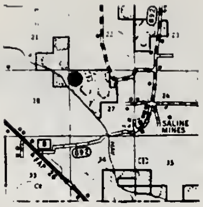
Mine Index U075 Opened -- Closed 1957

Environmental Locale Forest

Mined by Boutwell Mine

Owner Shawnee National Forest

Gob Volume 600 Problem Area Index 21



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.9	0.8				0.1	

Description:

This mine, located in a forested area approximately 7 miles southwest of Shawneetown, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The moderately eroded refuse pile, which was burning at the time of the survey, averaged 6 inches in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Runoff from the refuse area had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Gallatin T 10S R 9E S 30

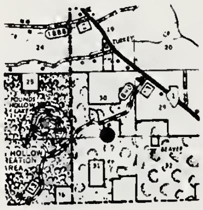
Mine Index L017 Opened 1935 Closed 1966

Environmental Locale Forest

Mined by Blu-Blaz-Bloc Coal Co.

Owner Private

Gob Volume 300 Problem Area Index 33



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.0	0.9		0.1			

Description:

This mine, located in a forested area approximately 1 mile east of Pounds Hollow Recreation Area, consisted of problem acreage associated with a gob refuse area and a tipple area. The severely eroded gob pile was several inches in height and supported sparse ground cover vegetation on its perimeter. An unsealed air shaft located on the tipple area constituted a hazard. Potential for drainage to adjacent streams existed at the mine.

U075

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	2.8	1,040	320	6.6	79	2.7	390
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	1,680	1.0	45	29	12	3.6	1,600
Burned Gob	3.9	3,900	3.2	23	250	8.2	40	5,800
Slurry								

L017

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	6.0	97	8	0.2	0.2	0.0	21
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.0	440	0.1	37	1.6	0.2	0.5	370
Burned Gob								
Slurry								

County Gallatin T 10S R 9E S 30

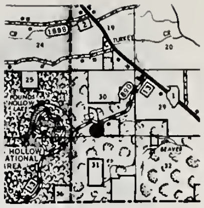
Mine Index L014 Opened 1910 Closed 1962

Environmental Locale Forest

Mined by Edgar Scott

Owner Shawnee National Forest

Gob Volume None Problem Area Index 27



Problem Acreage

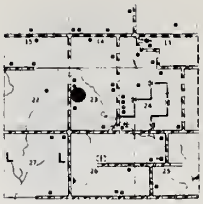
Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.0						

Description:

An unsealed main shaft constituted a hazard at this mine. It was located in a forested area approximately 0.5 mile east of Pounds Hollow Recreation Area.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Greene T 12N R 11W S 23



Mine Index L045 Opened 1939 Closed 1942

Environmental Locale Forest

Mined by Ed A. Elliott

Owner Private

Gob Volume 100 Problem Area Index 16

Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine, located in a forested area approximately 4 miles east of Roodhouse. The refuse averaged 1 foot in height and supported poor ground cover and moderate overstory vegetation. Potential for drainage to adjacent streams existed at the mine site.

NO DRAINAGE OR REFUSE DATA AVAILABELE

County Grundy T 31N R 8E S 10

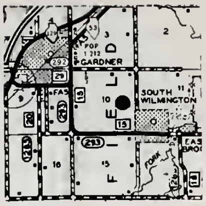
Mine Index U113 Opened -- Closed 1900

Environmental Locale Agricultural

Mined by Gardner and Wilmington Coal Co.

Owner Private

Gob Volume 23,000 Problem Area Index 33



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.8	1.8					

Description:

This mine, located in an agricultural area approximately 0.75 mile southeast of Gardner, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height. Moderate ground cover and overstory vegetation were restricted to the lower slope of the refuse. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 31N R 8E S 11

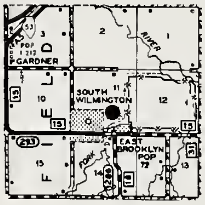
Mine Index U114 Opened -- Closed 1911

Environmental Locale Urban-Residential

Mined by Chicago-Wilmington & Vermilion Coal Co.

Owner Private

Gob Volume 86,000 Problem Area Index 59



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
5.3	5.3					

Description:

This mine, located in an urban-residential area near South Wilmington, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile was 61 to 70 feet in height and barren of vegetation. Potential for drainage to adjacent streams existed at the mine site.

U113

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.0	1,540	0.5	10	17	0.3	27	1,800
Burned Gob								
Slurry								

U114

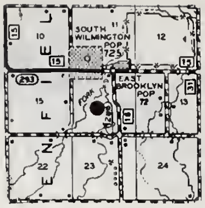
Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	8.0	750	2	0.2	0.7	0.0	50
General Runoff							
Below Mine	7.0	2,400	18	0.2	1.8	13	1,400
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.9	560	0.2	25	5.7	0.3	0.2	530
Burned Gob	5.0	500	Tr	8	0.2	Tr	0.5	440
Slurry								

County Grundy T 31N R 8E S 14
Mine Index U115 Opened -- Closed 1915
Environmental Locale Agricultural
Mined by Chicago-Wilmington & Vermilion Coal Co.
Owner Private
Gob Volume 209,000 Problem Area Index 87



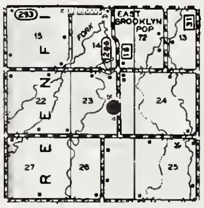
Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
9.1	9.1					

Description:

This mine, located in an agricultural area approximately 0.5 mile south of South Wilmington, consisted of problem acreage associated with two partially burned gob refuse areas. The first steeply sloped and severely eroded gob pile was 11 to 20 feet in height and barren of vegetation. The second gob pile, 81 to 90 feet in height, was also steeply sloped and severely eroded. Moderate ground cover and overstory vegetation were restricted to the lower slope of this refuse area. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 31N R 8E S 23
Mine Index L003 Opened 1908 Closed 1954
Environmental Locale Early Forest
Mined by Chicago-Wilmington & Vermilion Coal Co.
Owner Private
Gob Volume 286,000 Problem Area Index 100



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
12.6	11.8	0.8				

Description:

This mine, located in a forested area approximately 1.5 miles south of South Wilmington, consisted of problem acreage associated with two partially burned gob refuse areas and a slurry refuse area. Both refuse piles were steeply sloped, severely eroded, and 81 to 90 feet in height. Moderate ground cover and overstory vegetation were scattered on one of the gob piles; the other gob pile and the severely eroded slurry refuse area were barren. Potential for drainage to adjacent streams existed at the mine site.

U115

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	8.2	610	0	0.2	0.4	0.0	48
General Runoff							
Below Mine	7.4	690	8	0.3	0.7	0.0	110
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	4.4	160	0.1	20	0.4	Tr	Tr	110
#2	2.5	4,400	7.7	20	500	60	14	6,500
Burned Gob	5.4	110	Tr	7	4.3	0.1	0.1	83

L003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	8.2	650	0	0.3	0.7	1.1	58
General Runoff	3.2	1,350	105	9.0	600	0.0	450
Below Mine	8.2	640	0	0.2	3.2	0.0	53
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.6	2,600	1.0	16	60	0.8	12	3,800
Burned Gob	5.0	170	Tr	10	1.3	0.1	0.1	130
Slurry	2.6	3,400	1.6	114	15	41	0.5	3,600

County Grundy T 31N R 8E S 25

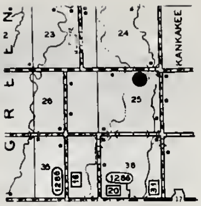
Mine Index L007 Opened 1935 Closed 1943

Environmental Locale Agricultural

Mined by Grand Prairie Mining Co.

Owner Private

Gob Volume 3,200 Problem Area Index 23



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.4	0.4					

Description:

This mine, located in an agricultural area approximately 3 miles southeast of South Wilmington, consisted of problem acreage associated with a partially burned gob refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Poor ground cover vegetation was restricted to the perimeter of the refuse area. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 32N R 6E S 23

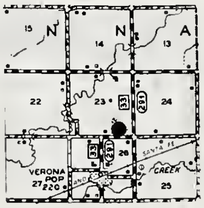
Mine Index U109 Opened 1921 Closed 1931

Environmental Locale Agricultural

Mined by Sunlight Coal Co.

Owner Private

Gob Volume 44,000 Problem Area Index 44



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
5.2	4.5		0.7			

Description:

This mine, located in an agricultural area approximately 0.5 mile north of Verona, consisted of problem acreage associated with a partially burned gob refuse area and a tipple area. The moderately sloped and severely eroded gob pile was 41 to 50 feet in height and barren of vegetation. Part of the gob had been removed. Foundations and a 0.3-mile gravel road remained on the excellently vegetated tipple area. Potential for drainage to adjacent streams existed at the mine site.

L007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.4	5,000	8.6	40	340	400	9.7	7,200
Burned Gob	4.5	130	0.1	6	1.4	0.4	0	89
Slurry								

U109

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	2.4	16,500	23,600	1,500	630	53	22,000
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.2	6,400	19	153	2,200	1,400	1.2	9,500
Burned Gob	3.0	5,100	22	0	96	4.3	1.6	13,000
Slurry								

County Grundy T 32N R 8E S 2

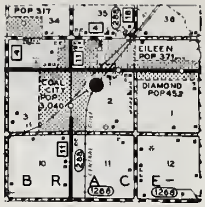
Mine Index U085 Opened 1890 Closed 1897

Environmental Locale Urban-Industrial

Mined by Wilmington Star Mining Co.

Owner Private

Gob Volume 7,400 Problem Area Index 35



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
2.3	2.3					

Description:

This mine, located in an urban-industrial area near Coal City, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Good ground cover vegetation was uniformly distributed on the refuse area; a few scattered trees were also present. A portion of the gob had been removed. The main shaft of the mine had not been sealed and constituted a hazard. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 32N R 8E S 3

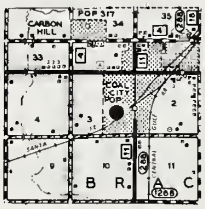
Mine Index U087 Opened -- Closed 1907

Environmental Locale Urban-Residential

Mined by Wilmington Star Mining Co.

Owner Private

Gob Volume 4,100 Problem Area Index 37



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
9.1	5.1	4.0				

Description:

This mine, located in an urban-residential area in Coal City, consisted of problem acreage associated with a gob refuse area and a slurry refuse area. The severely eroded gob refuse area averaged less than 1 foot in height. Poor ground cover vegetation was restricted to the perimeter of the gob area, and a few trees were scattered on the refuse. A portion of the gob had been removed from the area. Sparse ground cover vegetation occurred along the perimeter of the moderately eroded slurry refuse area. Potential for drainage to adjacent streams existed at the mine site.

U085

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.6	240	3	1.0	56	0.0	140
General Runoff							
Below Mine	7.5	270	3	1.5	81	0.4	320
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	1,790	0.7	22	29	0.4	15	2,300
Burned Gob								
Slurry								

U087

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.5	1,450	75	4.4	63	0.0	1,100
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.2	6,600	14	139	250	1,100	24	9,000
Burned Gob								
Slurry	2.6	2,900	2.5	81	550	54	4.0	3,500

County Grundy T 32N R 8E S 5

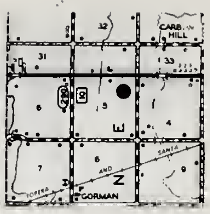
Mine Index U089 Opened -- Closed 1925

Environmental Locale Agricultural

Mined by Wilmington Star Mining Co.

Owner Private

Gob Volume 55,000 Problem Area Index 46



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
8.6	8.6					

Description:

This mine, located in an agricultural area approximately 2 miles west of Coal City, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded refuse pile was 21 to 30 feet in height. A portion of the gob had been removed. Poor ground cover vegetation was restricted to the perimeter of the gob area, and a few trees were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 32N R 8E S 11

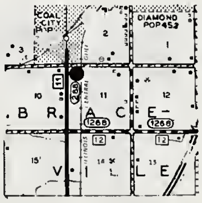
Mine Index U090 Opened -- Closed 1888

Environmental Locale Urban-Residential

Mined by Wilmington Star Mining Co.

Owner Private

Gob Volume 6,500 Problem Area Index 32



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.8	0.8					

Description:

This mine, located in an urban-residential area near Coal City, consisted of problem acreage associated with a gob refuse area. The moderately sloped and severely eroded gob pile was less than 10 feet in height. Sparse ground cover vegetation was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams existed at the mine site.

U089

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.4	1,480	80	6.5	74	0.1	800
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.5	5,000	12	48	95	90	36	8,300
Burned Gob	3.4	2,600	1.5	28	430	0.6	1.7	4,300
Slurry								

U090

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.1	4,400	5.9	38	0.9	3.0	114	7,800
Burned Gob								
Slurry								

County Grundy T 32N R 8E S 12

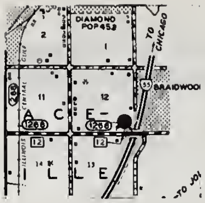
Mine Index U095 Opened -- Closed 1899

Environmental Locale Agricultural

Mined by Chicago-Wilmington & Vermilion Coal Co.

Owner Private

Gob Volume 3,500 Problem Area Index 26



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
4.6	3.2			1.4		

Description:

This mine, located in an agricultural area approximately 1.5 miles southeast of Coal City, consisted of problem acreage associated with a partially burned gob refuse area and an on-site water impoundment. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height. Moderate ground cover vegetation was restricted to the lower slope of the gob pile, and a few trees were scattered on the area. Runoff from the gob had polluted an on-site water impoundment. Pollution was not sufficiently severe to exclude plant growth as floating, submerged, and emergent vegetation were found in the impoundment. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 32N R 8E S 13

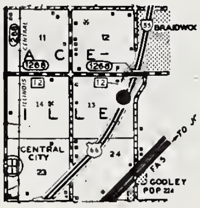
Mine Index U096 Opened 1896 Closed 1915

Environmental Locale Agricultural

Mined by Chicago-Wilmington & Vermilion Coal Co.

Owner Private

Gob Volume 28,000 Problem Area Index 35



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
2.2	2.2					

Description:

This mine, located in an agricultural area approximately 2 miles southeast of Coal City, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height. Poor ground cover and moderate overstory vegetation were restricted to the lower slope of the refuse. Pinus spp. had been planted on the area. Potential for drainage to adjacent streams existed at the mine site.

U095

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.0	450	0.1	12	0.8	0.1	2.7	410
Burned Gob	5.8	90	Tr	6	100	0.2	0.5	120
Slurry								

U096

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	2,400	1.7	13	0.2	2.1	35	3,500
Burned Gob	5.5	80	Tr	4	1.7	Tr	0.2	43
Slurry								

County Grundy T 32N R 8E S 13

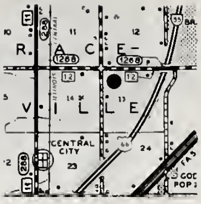
Mine Index U097 Opened --- Closed 1908

Environmental Locale Agricultural

Mined by Braceville Coal Co.

Owner Private

Gob Volume 84,000 Problem Area Index 54



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
6.5	6.5					

Description:

This mine, located in an agricultural area approximately 2 miles southeast of Coal City, consisted of problem acreage associated with a partially burned gob refuse area. This steeply sloped and severely eroded gob pile was 51 to 60 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of the gob pile. Pinus spp. had been planted on the area. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 32N R 8E S 14

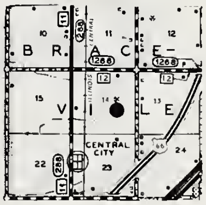
Mine Index U098 Opened -- Closed 1917

Environmental Locale Agricultural

Mined by Braceville Coal Co.

Owner Private

Gob Volume 79,000 Problem Area Index 67



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
4.9	4.9					

Description:

This mine, located in an agricultural area approximately 2 miles south of Coal City, consisted of problem acreage associated with a gob refuse area. The steeply sloped and severely eroded gob pile was 41 to 50 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of the refuse. The main shaft of the mine had not been sealed and constituted a hazard. Potential for drainage to adjacent streams existed at the mine site.

U097

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	4.4	690	30	1.5	58	2.0	350
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.1	550	0.1	7	370	0.1	3.4	480
Burned Gob	3.2	4,100	6.7	37	210	8.6	101	7,700
Slurry								

U098

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	2,000	1.7	20	92	0.9	38	2,700
Burned Gob								
Slurry								

County Grundy T 32N R 8E S 23

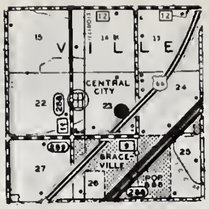
Mine Index U100 Opened 1890 Closed 1894

Environmental Locale Agricultural

Mined by Braceville Coal Co.

Owner Private

Gob Volume 106,000 Problem Area Index 69



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
3.9	3.3			0.6		

Description:

This mine, located in an agricultural area approximately 0.5 mile north of Braceville, consisted of problem acreage associated with a partially burned gob refuse area and an on-site water impoundment. The steeply sloped and severely eroded gob pile was 81 to 90 feet in height and barren of vegetation. An on-site water impoundment was polluted by drainage from the gob. Pollution was not sufficiently severe to exclude plant growth as emergent and submergent vegetation were present in the impoundment. An unsealed air shaft at the mine site constituted a hazard. Potential for drainage to adjacent streams existed at the site.

County Grundy T 32N R 8E S 23

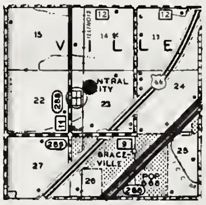
Mine Index U099 Opened 1890 Closed 1915

Environmental Locale Agricultural

Mined by Braceville Coal Co.

Owner Private

Gob Volume 148,000 Problem Area Index 117



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
54.8	22.9	31.9				

Description:

This mine, located in an agricultural area approximately 1 mile north of Braceville, consisted of problem acreage associated with a partially burned gob refuse area and a slurry refuse area. The steeply sloped and severely eroded gob pile was 71 to 80 feet in height and had no vegetation. The slurry area was also barren of vegetation. Potential for drainage to adjacent streams existed at the mine site.

U100

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.7	500	26	4.8	620	0.0	170
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.6	880	1	0.2	0.3	0.0	380
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	1,850	1.1	21	0.1	0.8	32	2,300
Burned Gob	5.6	1,740	Tr	0	54	Tr	3.3	2,400
Slurry								

U099

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools	2.9	2,100	350	46	14	2.6	1,100
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	4,100	4.5	67	12	27	0.1	4,800
Burned Gob	3.4	2,600	0.7	39	64	0.6	2.0	3,600
Slurry	3.0	3,000	1.4	92	59	8.2	2.5	4,000

County Grundy T 32N R 8E S 24

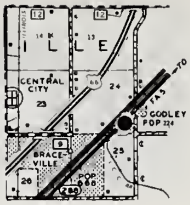
Mine Index U101 Opened -- Closed 1888

Environmental Locale Early Forest

Mined by Chicago-Wilmington & Vermilion Coal Co.

Owner Private

Gob Volume 11,000 Problem Area Index 27



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.1	1.1					

Description:

This mine, located in a forested area within the city limits of Godley, consisted of problem acreage associated with a gob refuse area. This steeply sloped and severely eroded gob pile was 31 to 40 feet in height. Sparse ground cover vegetation was restricted to the lower slope of the gob pile and a few trees were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 32N R 8E S 24

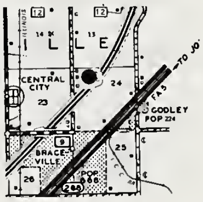
Mine Index U102 Opened 1893 Closed 1907

Environmental Locale Agricultural

Mined by Braceville Coal Co.

Owner Private

Gob Volume 81,000 Problem Area Index 52



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
5.0	5.0					

Description:

This mine, located in an agricultural area approximately 1 mile north of Braceville, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile was 71 to 80 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of the refuse. Potential for drainage to adjacent streams existed at the mine site.

U101

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	5.0	1,200	15	0.1	0.7	1.3	380
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	2,900	1.2	16	0.3	1.0	50	4,300
Burned Gob								
Slurry								

U102

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.4	150	0.1	34	48	0.1	0.3	110
Burned Gob	3.7	2,700	0.8	17	0.2	0.2	20	3,700
Slurry								

County Grundy T 32N R 8E S 25

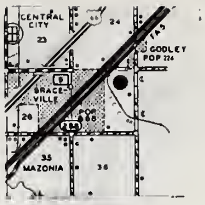
Mine Index U105 Opened -- Closed --

Environmental Locale Agricultural

Mined by Shotz Mine

Owner Private

Gob Volume 2,900 Problem Area Index 24



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.9	0.9					

Description:

This mine, located in an agricultural area near Godley, consisted of problem acreage associated with a gob refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Sparse ground cover vegetation was restricted to the lower slope of the gob pile, and a few trees were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 32N R 8E S 36

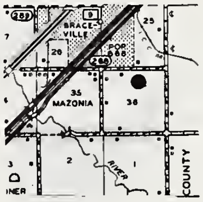
Mine Index L005 Opened 1936 Closed 1940

Environmental Locale Agricultural

Mined by Truckers Coal Co.

Owner Private

Gob Volume None Problem Area Index 29



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.0						

Description:

The only problem at this mine site was an unsealed air shaft which constituted a hazard. The mine was in an agricultrual area approximately 0.5 mile south of Braceville.

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	5.2	500	Tr	14	550	Tr	1.2	450
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Grundy T 33N R 7E S 5

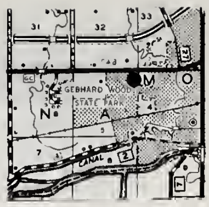
Mine Index U061 Opened 1902 Closed --

Environmental Locale Agricultural

Mined by Mitchell and Brothers

Owner 1st National Bank

Gob Volume 200 Problem Area Index 19



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area near Morris. This small gob refuse area averaged less than 1 foot in height and supported no vegetation. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 33N R 8E S 26

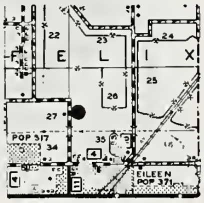
Mine Index U071 Opened 1904 Closed 1915

Environmental Locale Early Forest

Mined by Big Four Wilmington Coal Company

Owner Coal City Area Club

Gob Volume 21,000 Problem Area Index 30



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.6	1.6					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 1 mile north of Coal City. This steeply sloped and severely eroded refuse pile was 11 to 20 feet in height. Good ground cover and moderate overstory vegetation were restricted to the lower slope of the refuse. Potential for drainage to adjacent streams existed at the mine site.

U061

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	4,400	10.6	66	530	48	46	8,000
Burned Gob								
Slurry								

U071

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.8	1,520	0.2	26	7.5	0.2	12	1,900
Burned Gob								
Slurry								

County Grundy T 33N R 8E S 27

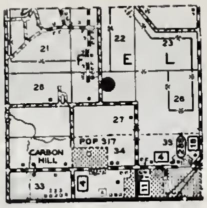
Mine Index U072 Opened -- Closed --

Environmental Locale Early Forest

Mined by Big Four Wilmington Coal Company

Owner Private

Gob Volume 16,000 Problem Area Index 28



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
1.0	1.0					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area close to Carbon Hill. This steeply sloped and severely eroded refuse pile was 11 to 20 feet in height. Good ground cover and moderate overstory vegetation were restricted to the lower slope of the refuse. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 33N R 8E S 33

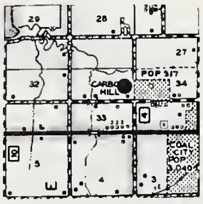
Mine Index U074 Opened -- Closed 1913

Environmental Locale Agricultural

Mined by Big Four Wilmington Coal Co.

Owner Private

Gob Volume 138,000 Problem Area Index 62



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
8.6	8.6					

Description:

This mine, located in an agricultural area near Carbon Hill, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped, severely eroded refuse pile was 51 to 60 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the lower slope of the refuse pile. Potential for drainage to adjacent streams existed at the mine site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U074

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	3.9	3,600	160	26.0	0.9	37	2,300
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.5	1,300	0.4	54	14	0.3	20	1,600
Burned Gob	4.6	1,340	0.1	6	0.8	0.1	3.5	1,700
Slurry								

County Grundy T 33N R 8E S 34

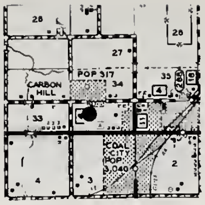
Mine Index U075 Opened -- Closed --

Environmental Locale Urban-Residential

Mined by Unknown

Owner Private

Gob Volume 7,800 Problem Area Index 34



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
3.2	3.2					

Description:

This mine, located in an urban-residential area near Coal City, consisted of problem acreage associated with a partially burned gob refuse area. The severely eroded refuse pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were restricted to the lower slope of the pile. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 33N R 8E S 35

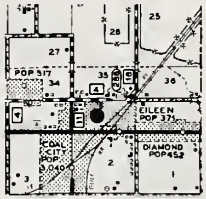
Mine Index U077 Opened 1890 Closed --

Environmental Locale Urban-Residential

Mined by W. B. Suffren & Brothers

Owner Private

Gob Volume 1,800 Problem Area Index 28



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
1.7	1.7					

Description:

This mine, located in an urban-residential area in Coal City, consisted of problem acreage associated with a gob refuse area. This severely eroded refuse pile was less than 10 feet in height with a 3 to 15 percent slope. Moderate ground cover and sparse overstory vegetation were restricted to the perimeter of the pile. Potential for drainage to adjacent streams existed at the mine.

U075

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	4.4	4,100	70	4.7	1.3	36	2,600
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.6	3,000	2.0	59	120	0.7	36	4,900
Burned Gob	5.2	240	Tr	8	0.2	Tr	0.2	210
Slurry								

U077

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	6.8	350	8	0.8	55	0.4	120
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.7	610	0.2	18	3.4	0.2	5.7	590
Burned Gob								
Slurry								

County Grundy T 33N R 8E S 35

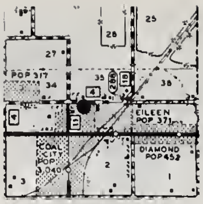
Mine Index U078 Opened 1890 Closed --

Environmental Locale Urban-Residential

Mined by W. B. Suffren and Bros.

Owner Private

Gob Volume 2,300 Problem Area Index 30



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
1.7	1.7					

Description:

This mine, located in an urban-residential area north of Coal City, consisted of problem acreage associated with an extensively burned gob refuse area. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height and had no vegetation. Potential for drainage to adjacent streams existed at the mine site.

County Grundy T 33N R 8E S 35

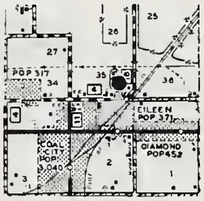
Mine Index U076 Opened 1894 Closed --

Environmental Locale Agricultural

Mined by Big Four Wilmington Coal Co.

Owner Private

Gob Volume 12,000 Problem Area Index 29



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
2.4	2.4					

Description:

This mine, located in an agricultural area near Eileen, consisted of problem acreage associated with a gob refuse area. The severely eroded refuse pile was less than 10 feet in height with a 3 to 5 percent slope. Moderate ground cover vegetation was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams existed at the mine site.

U078

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.6	7,900	1,100	140	3.0	74	7,800
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob	3.5	6,000	3.8	10	270	4.3	145	10,900
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Grundy T 33N R 8E S 36

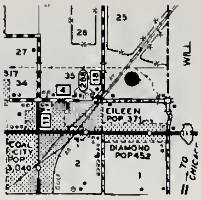
Mine Index U079 Opened 1890 Closed --

Environmental Locale Early Forest

Mined by Big Four Wilmington Coal Company

Owner Private

Gob Volume 1300 Problem Area Index 19



Problem Acreage

				On-site Impoundment	Off-site	
Total	Gob	Slurry	Tipple		Terrestrial	Aquatic
1.0	1.0					

Description:

This mine, located in a forested area north of Diamond, consisted of problem acreage associated with a gob refuse area. This moderately sloped and severely eroded gob pile was 11 to 20 feet in height. A portion of the gob had been removed from the area. Poor ground cover vegetation was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams existed at the mine site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Grundy T 34N R 7E S 20

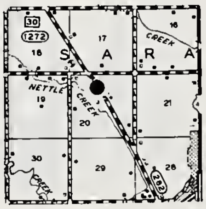
Mine Index L017 Opened 1936 Closed 1941

Environmental Locale Agricultural

Mined by Robert Condon Coal Mine

Owner Private

Gob Volume 400 Problem Area Index 20



Problem Acreage

				On-site Impoundment	Off-site	
Total	Gob	Slurry	Tipple		Terrestrial	Aquatic
0.5	0.5					

Description:

This mine, located in an agricultural area approximately 2.5 miles northwest of Morris, consisted of problem acreage associated with a small gob refuse area. This severely eroded gob pile averaged less than 1 foot in height and had no vegetation. Part of the gob had been removed. Potential for drainage to adjacent streams existed at the mine site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Grundy T 34N R 7E S 32

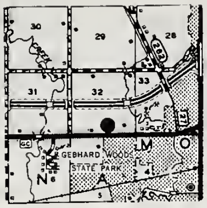
Mine Index U026 Opened -- Closed 1937

Environmental Locale Agricultural

Mined by R. Condon Mine

Owner Private

Gob Volume 100 Problem Area Index 18



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 1 mile west of Morris. This severely eroded gob pile averaged less than 1 foot in height and was barren of vegetation. Potential for drainage to adjacent streams existed at the mine site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Hancock T 3N R 5W S 34

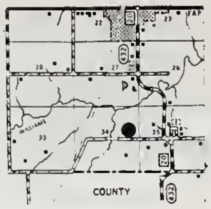
Mine Index L017 Opened 1902 Closed --

Environmental Locale Early Forest

Mined by C. H. Ellis & Sons

Owner Private

Gob Volume 4,400 Problem Area Index 19



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 2 miles south of Augusta. This moderately eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover vegetation was restricted to the perimeter of the refuse. A few scattered trees were also present. Potential for drainage from the mine site was not observed.

L017

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.3	2,000	1.7	46	100	0.8	8	3,000
Burned Gob								
Slurry								

County Henry T 14N R 1E S 33

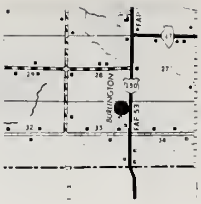
Mine Index S002 Opened 1923 Closed 1965

Environmental Locale Agricultural

Mined by Shuler Coal Co.

Owner Private

Gob Volume 265,000 Problem Area Index 93



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
12.3	6.2		5.1	1.0		

Description:

This mine, located in an agricultural area approximately 1.5 miles south of Alpha, consisted of problem acreage associated with two gob refuse areas, a tipple area, and an on-site water impoundment. One of the gob piles was steeply sloped, severely eroded, and 61 to 70 feet in height. Shale from this extensively burned gob pile was used by the highway department. Sparse ground cover and overstory vegetation were restricted to the lower slope of the refuse. The other partially burned gob pile was severely eroded and 11 to 20 feet in height with a 3 to 15 percent slope. This refuse area was utilized as a dump. Moderate ground cover and sparse overstory vegetation were scattered on the gob refuse. Runoff from the gob had polluted an on-site water impoundment in which emergent vegetation was present. Machinery, buildings, and a 0.2-mile gob road existed on the poorly vegetated tipple area. Potential for drainage to adjacent streams existed at the mine site.

County Henry T 15N R 1E S 28

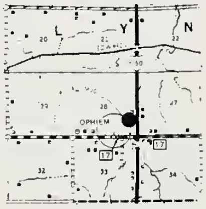
Mine Index L010 Opened 1932 Closed 1954

Environmental Locale Agricultural

Mined by Long View Coal Co.

Owner Private

Gob Volume 16,000 Problem Area Index 31



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
5.0	5.0					

Description:

This mine, located in an agricultural area approximately 6 miles southwest of Andover, consisted of problem acreage associated with a partially burned gob refuse area. The gob pile, which was graded and utilized as a dump, was less than 10 feet in height with a 3 to 15 percent slope. Good ground cover vegetation was scattered on the gob pile, and moderate overstory vegetation was uniformly distributed on the refuse. Potential for drainage to adjacent streams existed at the mine site.

S002

Drainage Samples

Sample Type		pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine								
General Runoff	#1	3.2	1,510	170	14	7.4	2.3	700
	#2	2.6	3,000	810	52	760	2.4	1,500
Gob Pools								
Slurry Pools								
Flooded Openings								
Flowing Openings								
On-site Impoundments								
Off-site Aquatic								
Off-site Terrestrial								

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.8	2,700	1.6	12	120	1.1	1.3	4,400
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Henry T 15N R 3E S 6

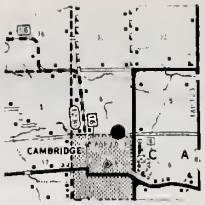
Mine Index U076 Opened -- Closed --

Environmental Locale Agricultural

Mined by Fairley Bros. & Co.

Owner Private

Gob Volume 3,900 Problem Area Index 20



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.4	0.3			0.1		

Description:

This mine, located in an agricultural area near the northeast city limits of Cambridge, consisted of problem acreage associated with a gob refuse area and an on-site water impoundment. The gob pile, utilized as a dump, was less than 10 feet in height with a 3 to 15 percent slope. Moderate ground cover vegetation was restricted to the refuse. Potential for drainage to adjacent streams existed at the mine.

County Henry T 16N R 1E S 3

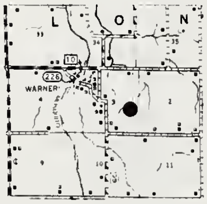
Mine Index L002 Opened 1922 Closed 1946

Environmental Locale Agricultural

Mined by Warner Coal Co.

Owner Private

Gob Volume 4,800 Problem Area Index 22



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
3.0	3.0					

Description:

This mine, located in an agricultural area approximately 3.5 miles north of Orion, consisted of problem acreage associated with a gob refuse area. The gob pile averaged 1 foot in height and supported good, uniformly distributed ground cover vegetation. Part of the gob had been removed and the area was being used as a dump. Potential for drainage to adjacent streams was not observed at the mine site.

U076

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	4,000	5.4	33	360	9.2	42	6,500
Burned Gob								
Slurry								

NO DRAIANGE OR REFUSE DATA AVAILABLE

County Henry T 17N R 1E S 21

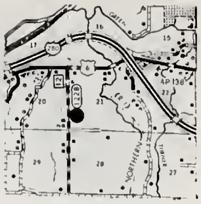
Mine Index U011 Opened -- Closed --

Environmental Locale Agricultural

Mined by Unknown

Owner Private

Gob Volume 19,000 Problem Area Index 28



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.6	0.6					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 2 miles southwest of Greenrock. The moderately sloped and severely eroded gob pile was 31 to 40 feet in height. Poor ground cover vegetation was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

County Henry T 17N R 1E S 21

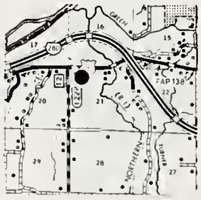
Mine Index L035 Opened 1880 Closed 1949

Environmental Locale Agricultural

Mined by Henry L. Dial

Owner Montgomery Elevator

Gob Volume 1,500 Problem Area Index 45



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.6	0.3				0.3	

Description:

This mine, located in an agricultural area approximately 2 miles southwest of Greenrock, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The moderately eroded gob pile averaged 3 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the perimeter of the refuse. Continuous seepage from a shaft had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

U011

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.4	5,000	8.1	120	410	160	0.3	6,700
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Henry T 17N R 1E S 22

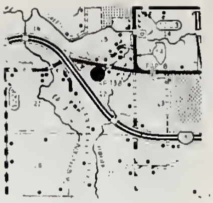
Mine Index U032 Opened -- Closed --

Environmental Locale Early Forest

Mined by Unknown

Owner Private

Gob Volume 4,800 Problem Area Index 19



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 1 mile south of Greenrock. The moderately sloped and eroded gob pile was 11 to 20 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

County Henry T 17N R 1E S 32

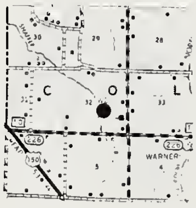
Mine Index L034 Opened 1939 Closed 1961

Environmental Locale Agricultural

Mined by Bill Whimpey

Owner Private

Gob Volume 169,000 Problem Area Index 88



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
7.0	7.0					

Description:

This mine, located in an agricultural area approximately 5 miles southwest of Greenrock, consisted of problem acreage associated with a partially burned gob refuse area. The moderately sloped and severely eroded gob pile, utilized as a dump, was 11 to 20 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the perimeter of the refuse. Continuous seepage from a ground water source at the mine was draining into nearby streams.

NO DRAINAGE OR REFUSE DATA AVAILABLE

L034

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.0	3,000	840	180	150	12	2,100
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	3,400	2.3	344	63	33	0.1	4,200
Burned Gob								
Slurry								

County Jackson T 7S R 1W S 5

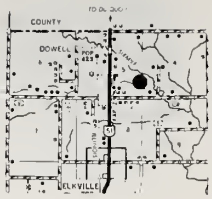
Mine Index S002 Opened 1918 Closed 1947

Environmental Locale Agricultural

Mined by Union Colliery Co.

Owner Private

Gob Volume 467,000 Problem Area Index 136



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
71.2	57.9	2.3	10.0		1.0	

Description:

This mine, located in an agricultural area near Dowell, consisted of problem acreage associated with a partially burned gob refuse area, a slurry area, a tipple area, and an off-site terrestrial area. The steeply sloped and severely eroded gob pile, utilized as a dump, was 31 to 40 feet in height. Poor ground cover and sparse overstory vegetation were scattered on the gob refuse. The perimeter of the slurry refuse area supported poor ground cover vegetation. Buildings remained on the moderately vegetated tipple area which was also utilized as a dump. Runoff from the gob, slurry, and tipple had affected an adjacent off-site terrestrial area, and potential for drainage into adjacent streams existed at the site.

County Jackson T 7S R 1W S 20

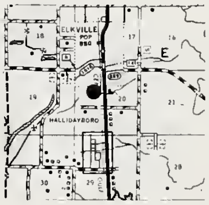
Mine Index L028 Opened 1936 Closed 1966

Environmental Locale Agricultural

Mined by Elk Coal Co.

Owner Private

Gob Volume 549,000 Problem Area Index 129



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
27.1	17.0	3.9	0.6	1.1	4.5	

Description:

This mine, located in an agricultural area near Elkville, consisted of problem acreage associated with a partially burned gob refuse area, two slurry refuse areas, a tipple area, an on-site water impoundment, and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 61 to 70 feet in height. Sparse ground cover vegetation was scattered on the refuse. One of the two slurry refuse areas was uneroded, but the other area exhibited severe erosion conditions. Vegetation was absent on both of the slurry areas. Buildings and machinery remained on the sparsely vegetated tipple area. Runoff from the gob, slurry, and tipple had affected an on-site water impoundment and an off-site terrestrial area; potential for drainage to adjacent streams existed at the mine site.

S002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	6.6	1,420	27	0.4	2.1	5.7	590
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	3.2	2,700	0.7	98	170	11	1.8	3,800
#2	3.2	1,090	0.6	81	24	1.0	0.0	1,000
Burned Gob	4.2	230	0.1	31	1.7	0.1	0.0	160
Slurry	3.6	3,000	2.7	138	160	1.7	49	4,600

L028

Drainage Samples

Sample Type		pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine		7.8	930	11	0.4	0.4	2.2	77
General Runoff	#1	2.4	5,900	2,800	180	120	29	4,800
	#2	2.8	5,000	1,600	390	99	17	4,000
Below Mine	#1	3.2	5,500	790	120	100	15	3,900
	#2	6.9	450	13	0.4	13	0.9	120
Gob Pools		2.5	5,000	2,400	120	100	19	3,900
Slurry Pools		2.6	6,400	3,700	380	100	39	5,600
On-site Impoundments		2.6	3,800	3,200	120	100	15	2,800
Off-site Aquatic								
Off-site Terrestrial		2.8	2,100	315	30	20	13	1,100

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.8	1,510	1.0	96	61	6.4	9.8	2,100
Burned Gob	3.8	2,400	0.8	19	46	0.4	1.1	3,600
Slurry	2.9	2,600	2.8	175	18	3.9	0.0	3,500

County Jackson T 7S R 1W S 29

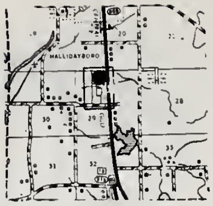
Mine Index U004 Opened 1888 Closed 1938

Environmental Locale Agricultural

Mined by Jackson County Coal

Owner Private

Gob Volume 26,000 Problem Area Index 44



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
9.7	5.3				4.4	

Description:

This mine, located in an agricultural area near Hallidayboro, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The moderately sloped and severely eroded gob pile was 21 to 30 feet in height. Poor ground cover vegetation was restricted to the perimeter of the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area. A 0.3-acre tipple area supported uniformly distributed, good vegetative cover and posed no problem. Potential for drainage to adjacent streams existed at the mine site.

County Jackson T 7S R 1W S 29

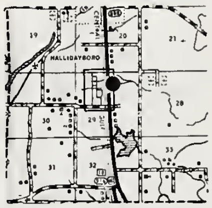
Mine Index U005 Opened -- Closed 1923

Environmental Locale Early Forest

Mined by Muddy Valley Mine

Owner Private

Gob Volume 18,000 Problem Area Index 28



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
2.2	2.2					

Description:

This mine, located in a forested area near Hallidayboro, consisted of problem acreage associated with a gob refuse area. This severely eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. A portion of the gob had been removed due to a carbon recovery operation. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

U004

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.8	3,100	360	49	7.9	18	1,800
Below Mine	5.9	1,520	55	0.4	5.0	2.8	310
Gob Pools	3.2	770	110	0.9	0.4	0.0	290
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

U005

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	3.9	1,550	130	2.7	4.8	4.6	750
General Runoff	2.7	2,400	1,100	39	2.0	1.9	1,100
Below Mine #1	6.6	1,200	19	0.3	2.0	2.2	560
#2	3.3	980	105	7.1	4.0	5.1	390
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	3,000	1.5	56	83	2.0	0.5	4,300
Burned Gob								
Slurry								

County Jackson T 7S R 3W S 27

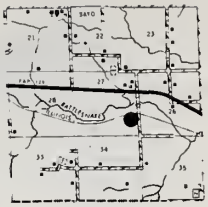
Mine Index U088 Opened -- Closed 1913

Environmental Locale Forest

Mined by V. L. Church

Owner Private

Gob Volume None Problem Area Index 27



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
0.0						

Description:

An open shaft constituting a hazard was all that remained at this mine site. It was located in a forested area approximately 2 miles northwest of Oraville.

County Jackson T 8S R 1W S 5

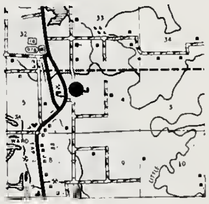
Mine Index L054 Opened 1947 Closed 1957

Environmental Locale Agricultural

Mined by Co-op Coal Co.

Owner Private

Gob Volume 7,700 Problem Area Index 31



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
3.6	2.4				1.2	

Description:

This mine, located in an agricultural area approximately 3 miles north of De Soto, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The steeply sloped and moderately eroded gob pile, utilized as a dump, was 11 to 20 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the perimeter of the refuse. Runoff from the gob had affected an off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

L054

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.6	3,300	1,200	150	75	26	2,200
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	3,200	2.8	68	99	22	0.5	3,800
Burned Gob	4.1	840	0.3	12	12	0.1	0.3	910
Slurry								

County Jackson T 8S R 1W S 5

Mine Index U008 Opened -- Closed --

Environmental Locale Agricultural

Mined by M. E. Coal Co.

Owner Private

Gob Volume 400 Problem Area Index 17

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
0.5	0.5					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 3 miles north of De Soto. This small gob pile averaged only 6 inches in height. Sparse ground cover was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

County Jackson T 8S R 1W S 5

Mine Index L007 Opened 1934 Closed 1955

Environmental Locale Agricultural

Mined by M. E. Coal Co.

Owner Private

Gob Volume 800 Problem Area Index 21

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
0.5	0.5					

Description:

This mine, located in an agricultural area approximately 3 miles north of De Soto, consisted of problem acreage associated with a gob refuse area. The moderately eroded refuse pile averaged 1 foot in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams existed at the site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

1007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.2	3,000	28	0.4	2.2	4.0	3,200
General Runoff	7.2	3,100	46	0.3	3.2	4.3	1,300
Below Mine	7.3	3,000	29	0.4	2.0	3.7	1,300
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	3,200	2.6	176	99	35	0.8	4,300
Burned Gob								
Slurry								

County Jackson T 8S R 1W S 8

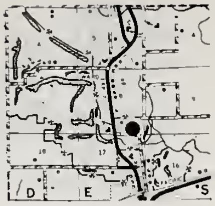
Mine Index U052 Opened -- Closed 1916

Environmental Locale Strip Mine-inactive

Mined by New Muddy Valley Mine

Owner Private

Gob Volume 1,800 Problem Area Index 12



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.1	1.1					

Description:

This mine, located in the vicinity of an inactive strip mine approximately 1 mile north of De Soto, consisted of problem acreage associated with a gob refuse area. This gob pile averaged 1 foot in height and supported moderate ground cover vegetation which was scattered on the refuse area. Potential for drainage to adjacent streams existed at the mine site.

County Jackson T 8S R 1W S 8

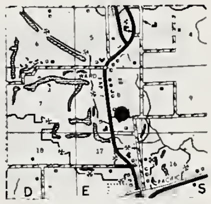
Mine Index U009 Opened -- Closed 1908

Environmental Locale Forest

Mined by Inland Steel & Washing Co.

Owner Private

Gob Volume 38,000 Problem Area Index 44



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
5.3	3.4				1.9	

Description:

This mine, located in a forested area approximately 1.5 miles north of De Soto, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height and barren of vegetation. Runoff from the gob refuse had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

U052

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	3.5	620	170	5.3	56	11	240
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

U009

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.1	4,200	1,700	120	170	9.6	2,300
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Jackson T 8S R 1W S 8

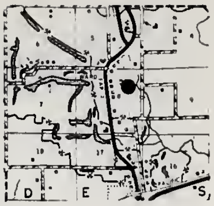
Mine Index U047 Opened -- Closed --

Environmental Locale Early Forest

Mined by Burnette Mine

Owner Private

Gob Volume None Problem Area Index 19



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
2.7		2.0			0.7	

Description:

This mine, located in a forested area approximately 1.5 miles north of De Soto, consisted of problem acreage associated with a slurry refuse area and an off-site terrestrial area. Poor vegetative cover was restricted to the perimeter of the slurry area which was holding surface water. Runoff from the slurry had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine site.

County Jackson T 8S R 1W S 8

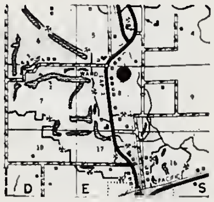
Mine Index U039 Opened -- Closed 1925

Environmental Locale Early Forest

Mined by Chicago Fuel Co.

Owner Private

Gob Volume 7,100 Problem Area Index 34



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
13.7	2.2		2.0	9.2	0.3	

Description:

This mine, located in a forested area approximately 2 miles north of De Soto, consisted of problem acreage associated with a gob refuse area, a tipple area, an on-site impoundment, and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 11 to 20 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the perimeter of the refuse. Machinery and a 0.1-mile dirt road remained on the poorly vegetated tipple area. Runoff from the mine area had affected an on-site water impoundment and an off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

U047

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial	2.3	2,800	1,200	66	48	11	1,200

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

U039

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	7.6	390	24	0.2	0.9	0.0	120
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	8.6	230	0	0.2	0.6	0.0	150
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,600	0.9	79	38	1.9	4.0	3,600
Burned Gob								
Slurry								

County Jackson T 8S R 1W S 11

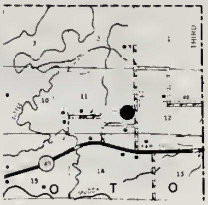
Mine Index U112 Opened 1932 Closed 1934

Environmental Locale Agricultural

Mined by Little Muddy Coal Company

Owner Private

Gob Volume None Problem Area Index 29



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
0.0						

Description:

A deep, water-filled hole constituting a hazard was all that remained at this mine. It was located in an agricultural area approximately 3 miles northwest of De Soto.

County Jackson T 8S R 2W S 28

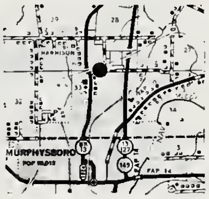
Mine Index U104 Opened -- Closed --

Environmental Locale Rural-Residential

Mined by Big Muddy Coal & Iron

Owner Private

Gob Volume 3,200 Problem Area Index 26



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
4.0	4.0					

Description:

This mine, located in a rural-residential area approximately 0.5 mile north of Murphysboro, consisted of problem acreage associated with a gob refuse area. This steeply sloped and severely eroded gob pile was less than 10 feet in height and had no vegetation. Telephone poles were being stored on the refuse area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U104

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	2,500	0.8	46	20	1.9	0.2	3,500
Burned Gob								
Slurry								

County Jackson T 9S R 1W S 27

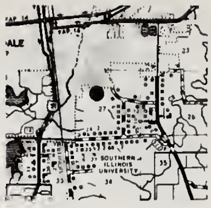
Mine Index U073 Opened -- Closed --

Environmental Locale Forest

Mined by Carbondale Coal Co.

Owner Private

Gob Volume 3,200 Problem Area Index 22



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
2.0	2.0					

Description:

This mine, located in a forested area near Carbondale, consisted of problem acreage associated with a partially burned gob refuse area. This severely eroded gob pile averaged 1 foot in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse area. Potential for drainage to adjacent streams existed at the mine.

County Jackson T 9S R 1W S 27

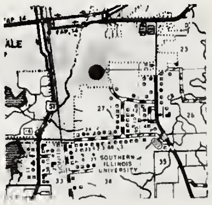
Mine Index U075 Opened -- Closed --

Environmental Locale Forest

Mined by Carbondale Coal Co.

Owner Private

Gob Volume 2,400 Problem Area Index 21



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
3.0	3.0					

Description:

This mine, located in a forested area near Carbondale, consisted of problem acreage associated with a gob refuse area. This severely eroded gob pile averaged 6 inches in height. Moderate ground cover and overstory vegetation were uniformly distributed on the refuse. Potential for drainage to adjacent streams existed at the mine.

U073

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	5.2	390	26	0.2	0.4	0.0	110
General Runoff	2.6	1,800	630	65	76	23	880
Below Mine	3.4	3,800	50	4.5	4.6	2.3	120
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.7	1,400	1.3	50	27	25	8.3	780
Burned Gob	3.8	620	0.5	10	20	0.2	0.9	650
Slurry								

U075

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	2.5	1,710	750	49	55	9.7	970
General Runoff	2.9	2,300	335	35	77	36	1,200
Below Mine	3.1	1,070	185	8.8	34	21	570
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.5	320	0.3	82	3	0.9	2.2	210
Burned Gob								
Slurry								

County Jackson T 10S R 1W S 8

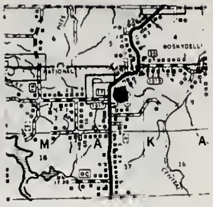
Mine Index U157 Opened -- Closed --

Environmental Locale Forest

Mined by Unknown

Owner Private

Gob Volume None Problem Area Index 55



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.0						

Description:

Continuous drainage from an opening into an adjacent stream was all that remained at this mine. It was located in a forested area approximately 2 miles south of Carbondale.

U157

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	7.3	550	16	3.1	16	0.0	60
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	5.2	750	100	6.9	250	12	330
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Johnson T 11S R 4E S 8

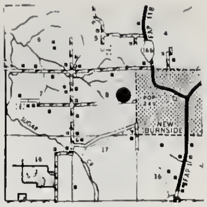
Mine Index U013 Opened -- Closed --

Environmental Locale Agricultural

Mined by Unknown-or small company

Owner Private

Gob Volume None Problem Area Index 29



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.0						

Description:

An unsealed mine shaft that constituted a hazard was all that remained at this mine. The site was located in an agricultural area near New Burnside.

County Johnson T 11S R 4E S 9

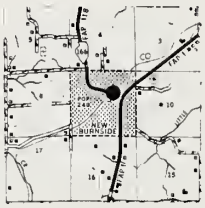
Mine Index U010 Opened -- Closed --

Environmental Locale Forest

Mined by Unknown

Owner Private

Gob Volume None Problem Area Index 55



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.0						

Description:

Continuous drainage from a shaft into an adjacent stream was all that remained at this mine. The site was located in a forested area near New Burnside.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U010

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	2.7	2,000	60	25	14	8.1	670
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Kankakee T 31N R 9E S 18

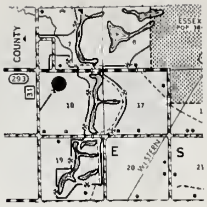
Mine Index U003 Opened -- Closed --

Environmental Locale Agricultural

Mined by Small Co. - No name given

Owner Peabody Coal Co.

Gob Volume 12,000 Problem Area Index 30



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
2.5	2.5					

Description:

This mine, located in an agricultural area approximately 2 miles southwest of Essex, consisted of problem acreage associated with a gob refuse area. The moderately sloped and severely eroded gob pile was less than 10 feet in height. Poor ground cover vegetation was resticted to the perimeter of the refuse, and sparse overstory vegetation was scattered over the refuse. Potential for drainage to adjacent streams existed at the mine site.

County Kankakee T 31N R 9E S 30

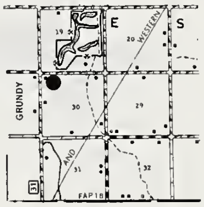
Mine Index U006 Opened -- Closed 1911

Environmental Locale Agricultural

Mined by Consol. Coal & Iron

Owner Private

Gob Volume 22,000 Problem Area Index 37



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
2.4	0.9				1.5	

Description:

This mine, located in an agricultural area approximately 4 miles southwest of Essex, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine site.

U003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.5	1,330	0.2	17	1.6	0.1	5.4	1,600
Burned Gob								
Slurry								

U006

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.4	2,600	200	23	100	11	1,600
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.1	870	0.4	40	6.3	0.7	2.1	830
Burned Gob	4.4	2,200	0.3	6	3.5	2.2	0.1	3,300
Slurry								

County Knox T 11N R 2E S 16

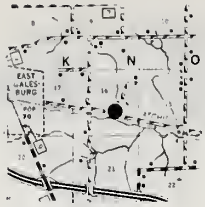
Mine Index S001 Opened 1925 Closed 1938

Environmental Locale Early Forest

Mined by Galesburg Mining Co.

Owner Private

Gob Volume 9,700 Problem Area Index 23



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
3.0	3.0					

Description:

This mine, located in a forested area approximately 1.5 miles north of Knoxville, consisted of problem acreage associated with a gob refuse area. The gob pile, which had been graded, averaged 2 feet in height. Moderate ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

County Knox T 11N R 2E S 25

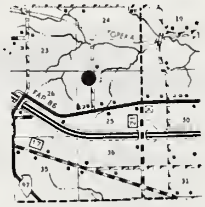
Mine Index L020 Opened 1936 Closed 1954

Environmental Locale Agricultural

Mined by Knoxville Mining Co.

Owner Private

Gob Volume 133,000 Problem Area Index 92



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
10.8	5.5		2.3			3.0

Description:

This mine, located in an agricultural area approximately 2 miles east of Knoxville, consisted of problem acreage associated with a partially burned gob refuse area, a tipple area, and an off-site aquatic area. The moderately sloped and severely eroded gob pile, utilized as a dump, was 11 to 20 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Machinery, buildings, and a 0.2-mile gob road remained on the moderately vegetated tipple area. Continuous flow from the gob refuse area had affected an off-site aquatic area; potential for drainage to adjacent streams existed at the mine.

S001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.6	170	0.2	165	1.4	1.0	Tr	100
Burned Gob								
Slurry								

L020

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.3	1,250	425	63	230	1.6	1,200
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	8.8	350	0	0.2	0.8	0.0	230
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.7	3,000	1.1	155	3.9	11	0.0	3,700
Burned Gob	4.8	250	0.1	6	0.2	0.8	0.0	230
Slurry								

County LaSalle T 29N R 2E S 18

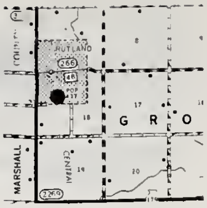
Mine Index U151 Opened 1915 Closed 1930

Environmental Locale Agricultural

Mined by Rutland Coal Company

Owner Private

Gob Volume 619,000 Problem Area Index 101



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
9.0	5.9				3.1	

Description:

This mine, located in an agricultural area near Rutland, consisted of problem acreage associated with an extensively burned gob refuse area and an off-site terrestrial area. The steeply sloped and severely eroded gob pile, utilized as a dump, was 71 to 80 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the lower slope of the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County La Salle T 29N R 2E S 18

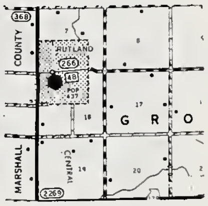
Mine Index U152 Opened --- Closed 1936

Environmental Locale Urban-Industrial

Mined by Rutland Coal Co.

Owner Private

Gob Volume 15,000 Problem Area Index 21



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.9	0.9					

Description:

This mine, located in an urban-industrial area in Rutland, consisted of problem acreage associated with a partially burned gob refuse area. The moderately eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

U151

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.4	7,500	3,000	10	23	99	6,200
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	8.3	420	0	7.4	20	0.0	130
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	3,000	2.6	27	150	0.8	58	4,700
Burned Gob	5.3	650	0.1	12	1.2	Tr	0.5	680
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County La Salle T 31N R 3E S 10

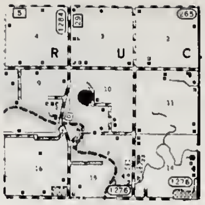
Mine Index U086 Opened 1917 Closed --

Environmental Locale Agricultural

Mined by Heenanville Coal Co.

Owner Private

Gob Volume 301,000 Problem Area Index 99



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
5.0	4.2				0.8	

Description:

This mine, located in an agricultural area approximately 3 miles northwest of Streator, consisted of problem acreage associated with two gob refuse areas and an off-site terrestrial area. The largest extensively burned gob pile was steeply sloped, severely eroded, and 50 to 60 feet in height. Sparse ground cover and overstory vegetation were resticted to the lower slope of the refuse. The second partially burned gob pile was steeply sloped, severely eroded, and 31 to 40 feet in height. Vegetative growth was similar to that on the larger gob pile. Runoff from the largest gob pile had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County La Salle T 31N R 3E S 10

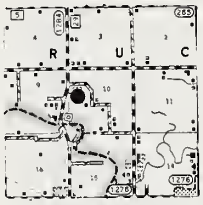
Mine Index U085 Opened 1890 Closed 1912

Environmental Locale Agricultural

Mined by Chicago-Wilmington & Vermilion

Owner Private

Gob Volume 203,000 Problem Area Index 63



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
4.2	4.2					

Description:

This mine, located in an agricultural area approximately 3 miles northwest of Streator, consisted of problem acreage associated with a gob refuse area. The steeply sloped, severely eroded gob pile was 21 to 30 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of the refuse. Potential for drainage to adjacent streams was not observed.

U086

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.2	9,400	47	108	1,600	3,900	12	22,000
Burned Gob	4.5	140	0.1	13	0.2	0.1	0.1	100
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County La Salle T 31N R 3E S 21

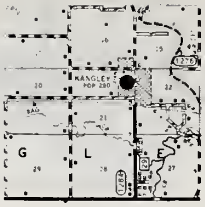
Mine Index U103 Opened 1890 Closed 1900

Environmental Locale Urban-Residential

Mined by Star Coal Company

Owner Private

Gob Volume 31,000 Problem Area Index 39



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
1.9	1.9					

Description:

This mine, located in an urban-residential area near Kangley, consisted of problem acreage associated with a partially burned gob refuse area. The moderately sloped and severely eroded gob pile was 21 to 30 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the lower slope of the refuse. The refuse area was being used for trail bike riding. Potential for drainage to adjacent streams was not observed.

County La Salle T 31N R 3E S 21

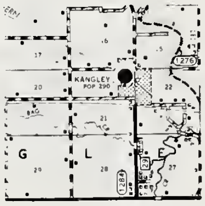
Mine Index U102 Opened --- Closed 1918

Environmental Locale Urban-Residential

Mined by Spring Lake Coal Co.

Owner Private

Gob Volume 32,000 Problem Area Index 38



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.8	0.8					

Description:

This mine, located in an urban-residential area near Kangley, consisted of problem acreage associated with a gob refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet high. Poor ground cover and sparse overstory vegetation were restricted to the lower slope of the refuse. The refuse area was being used for trail bike riding. Potential for drainage to adjacent streams was not observed.

U103

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob	3.8	500	0.1	20	1.2	Tr	0.9	450
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County La Salle T 31N R 3E S 22

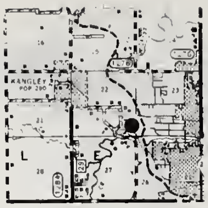
Mine Index U104 Opened 1917 Closed 1927

Environmental Locale Early Forest

Mined by John Petrotte

Owner Jamica Savings Bank

Gob Volume 103,000 Problem Area Index 77



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
2.2	1.6				0.6	

Description:

This mine, located in a forested area approximately 1 mile north of Streator, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 41 to 50 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of the gob pile. Continuous drainage from a closed shaft was flowing into the Vermilion River.

County LaSalle T 31N R 4E S 19

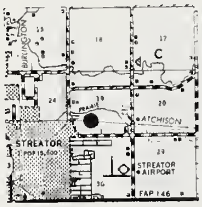
Mine Index U068 Opened -- Closed 1912

Environmental Locale Agricultural

Mined by Chicago-Wilmington and Vermilion Coal Co.

Owner Private

Gob Volume 464,000 Problem Area Index 94



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
8.8	8.8					

Description:

This mine, located in an agricultural area near Streator, consisted of problem acreage associated with two gob refuse areas, one of which was extensively burned. The larger gob pile was steeply sloped, severely eroded, and 51 to 60 feet in height. Good ground cover and sparse overstory vegetation were evenly distributed on this refuse area. The smaller gob pile, utilized as a dump, had been graded and averaged 2 feet in height. Vegetative cover was the same as on the larger refuse area. Potential for drainage to adjacent streams was not observed.

U104

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	6.8	1,510	105	0.4	6.6	0.3	560
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	1,700	1.0	27	39	0.2	5.2	2,300
Burned Gob	6.4	1,500	0.1	14	0.8	Tr	0.2	95
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County LaSalle T 31N R 4E S 19

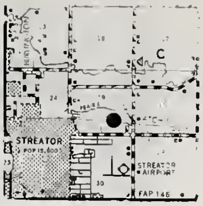
Mine Index U070 Opened 1894 Closed 1940

Environmental Locale Agricultural

Mined by H & M Plumb Coal Co.

Owner Private

Gob Volume 45,000 Problem Area Index 38



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
5.6	5.6					

Description:

This mine, located in an agricultural area near Streator, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile was 21 to 30 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams was not observed.

County La Salle T 31N R 4E S 19

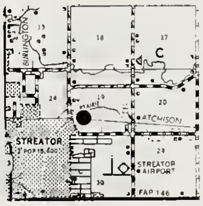
Mine Index U069 Opened -- Closed --

Environmental Locale Agricultural

Mined by Chicago-Wilmington & Vermilion Coal Co.

Owner Private

Gob Volume 102,000 Problem Area Index 50



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
2.2	1.4				0.8	

Description:

This mine, located in an agricultural area near Streator, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 41 to 50 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U069

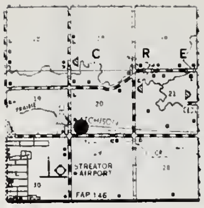
Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.7	3,900	4.7	161	270	30	7.6	5,500
Burned Gob	4.6	2,300	0.2	18	0.4	0.2	5.8	3,300
Slurry								

County LaSalle T 31N R 4E S 20
Mine Index U072 Opened -- Closed --
Environmental Locale Agricultural
Mined by Unknown
Owner Private
Gob Volume 31,000 Problem Area Index 35



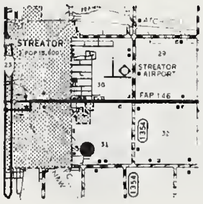
Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.4	1.9				0.5	

Description:

This mine, located in an agricultural area near Streator, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The severely eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were restricted to the refuse perimeter. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County La Salle T 31N R 4E S 31
Mine Index U076 Opened 1915 Closed 1916
Environmental Locale Urban-Residential
Mined by Harrison Coal Co.
Owner Private
Gob Volume 256,000 Problem Area Index 86



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
6.7	6.7					

Description:

This mine, located in an urban-residential area near Streator, consisted of problem acreage associated with two partially burned gob refuse areas. The larger gob pile was moderately sloped, severely eroded, and 31 to 40 feet in height. Sparse ground cover and overstory vegetation were restricted to the refuse perimeter. The smaller gob pile had been graded and averaged 3 feet in height. Poor ground cover was scattered on this refuse area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U076

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.2	11,900	82	82	3,000	9,500	12	38,000
Burned Gob								
Slurry								

County La Salle T 31N R 4E S 31

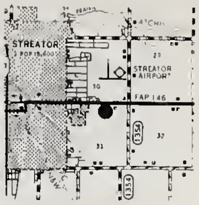
Mine Index U074 Opened 1893 Closed 1917

Environmental Locale Urban-Residential

Mined by Acme Coal Co.

Owner Private

Gob Volume 266,000 Problem Area Index 82



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
7.4	6.6				0.8	

Description:

This mine, located in an urban-residential area near Streator, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The moderately sloped and severely eroded gob pile was 21 to 30 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County La Salle T 32N R 1E S 4

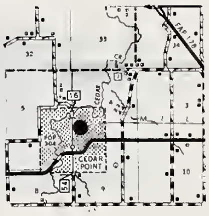
Mine Index U060 Opened -- Closed 1935

Environmental Locale Agricultural

Mined by Cedar Point #5

Owner Private

Gob Volume 1,240,000 Problem Area Index 145



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
12.8	12.8					

Description:

Located in an agricultural area near Cedar Point, this mine consisted of problem acreage associated with an extensively burned gob refuse area. The steeply sloped and severely eroded gob pile was 71 to 80 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of the refuse. An excellently vegetated tipple area, which was not a problem, also existed on the mine site. Potential for drainage to adjacent streams existed at the site.

U074

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	3.9	490	50	5.8	6.5	0.0	210
General Runoff							
Below Mine	2.5	2,900	1,400	72	240	0.5	1,900
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.0	11,900	59	48	2,300	4,300	12	28,000
Burned Gob								
Slurry								

U060

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.6	2,500	1.3	4	71	1.3	32	3,700
Burned Gob	4.8	650	0.1	9	0.4	0.1	3.4	660
Slurry								

County La Salle T 33N R 1E S 3

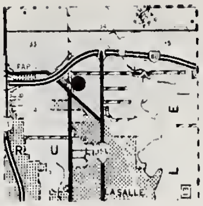
Mine Index U043 Opened -- Closed 1885

Environmental Locale Urban-Industrial

Mined by Old Caledonia

Owner Central Ill. Valley Ind. Co.

Gob Volume 58,000 Problem Area Index 38



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
6.0	3.0				3.0	

Description:

This mine, located in an urban-industrial area near La Salle, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The moderately eroded gob pile, utilized as a dump, was 11 to 20 feet in height with a 3 to 15 percent slope. Good ground cover and sparse overstory vegetation were restricted to the refuse perimeter. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County La Salle T 33N R 1E S 14

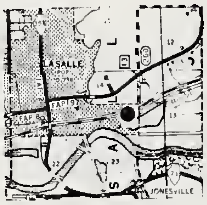
Mine Index U048 Opened -- Closed --

Environmental Locale Early Forest

Mined by La Salle County Carbon Coal Co.

Owner Private

Gob Volume 214,000 Problem Area Index 60



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
5.3	5.3					

Description:

This mine, located in a forested area within the city limits of La Salle, consisted of problem acreage associated with an extensively burned gob refuse area. The moderately sloped and severely eroded gob pile was 21 to 30 feet in height. Moderate ground cover vegetation was scattered on the refuse and heavy overstory vegetation was uniformly distributed over the area. Potential for drainage to adjacent streams was not observed.

U043

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.1	4,000	6.5	28	450	9.9	46	7,600
Burned Gob								
Slurry								

U048

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob	5.4	730	Tr	7	0.2	0.3	0.6	830
Slurry								

County La Salle T 33N R 1E S 14

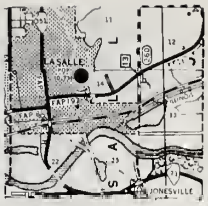
Mine Index U050 Opened -- Closed 1936

Environmental Locale Urban-Industrial

Mined by Mathiessen & Hegeler Zinc Co.

Owner Private

Gob Volume 1,730,000 Problem Area Index 189



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
16.5	16.5					

Description:

This mine, located in an urban-industrial area within the city limits of La Salle, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile was 61 to 70 feet in height. Sparse ground cover vegetation was present on the upper slope of the refuse. Potential for drainage to adjacent streams existed at the mine site.

County La Salle T 33N R 1E S 15

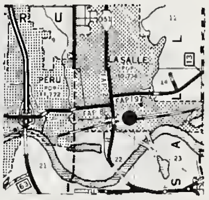
Mine Index U051 Opened 1856 Closed 1930

Environmental Locale Early Forest

Mined by La Salle County Carbon Coal Co.

Owner State of Illinois-Ill.-Mich. Canal

Gob Volume 295,000 Problem Area Index 70



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
13.3	12.2		1.1			

Description:

This mine, located near the Illinois-Michigan Canal in La Salle, consisted of problem acreage associated with an extensively burned refuse area and a tipple area. The moderately eroded gob pile was 11 to 20 feet high with a 3 to 15 percent slope. The refuse area had been graded and was being used as a motorcycle trail. Excellent ground cover vegetation was uniformly distributed on the area. Foundations, buildings, and a 0.2-mile railroad still existed on the tipple. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U051

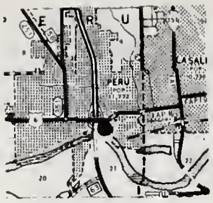
Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq $H^+/100g$	Pot. Acidity meq $H^+/100g$	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob	6.8	1,770	Tr	6	0.3	0.2	0.4	2,300
Slurry								

County LaSalle T 33N R 1E S 16



Mine Index S020 Opened 1879 Closed 1942

Environmental Locale Urban-Industrial

Mined by Peru Deep Vein Coal Company

Owner Private

Gob Volume 149,000 Problem Area Index 67

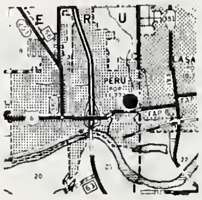
Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
6.0	6.0					

Description:

This mine, located in an urban-industrial area in Peru, consisted of problem acreage associated with two gob refuse areas. The larger extensively burned gob pile was steeply sloped, severely eroded, and 31 to 40 feet in height. A portion of the gob had been removed. This refuse area was barren of vegetation. The smaller partially burned gob area had been graded and was less than 10 feet in height. Sparse ground cover and overstory vegetation were scattered over the area. Potential for drainage to adjacent streams was not observed.

County La Salle T 33N R 1E S 16



Mine Index S003 Opened --- Closed ---

Environmental Locale Urban-Residential

Mined by Union Coal Company

Owner Private

Gob Volume 90,000 Problem Area Index 54

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.6	1.6					

Description:

This mine, located in an urban-residential area in Peru, consisted of problem acreage associated with an extensively burned gob refuse area. The moderately sloped and severely eroded gob pile was 31 to 40 feet in height. Moderate ground cover vegetation was present on the upper slope of the refuse, while moderate overstory vegetation was restricted to the lower slope of the refuse. Potential for drainage to adjacent streams existed at the mine.

S020

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	4,100	5.6	37	150	180.0	6.3	4,400
Burned Gob	3.8	3,100	1.7	9	75	0.2	32	4,900
Slurry								

S003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	4,500	9.4	39	590	22	42	8,000
Burned Gob	3.6	3,700	6.3	19	340	1.0	39	7,000
Slurry								

County La Salle T 33N R 1E S 23

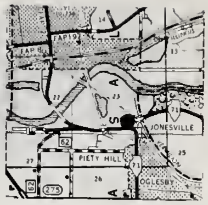
Mine Index U057 Opened -- Closed --

Environmental Locale Agricultural

Mined by La Salle County Carbon Coal Co.

Owner Private

Gob Volume 1,140,000 Problem Area Index 126



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
9.4	9.4					

Description:

This mine, located in an agricultural area near Oglesby, consisted of problem acreage associated with an extensively burned gob refuse area. The steeply sloped and severely eroded gob pile, utilized as a dump, was 71 to 80 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams was not observed.

County La Salle T 33N R 1E S 25

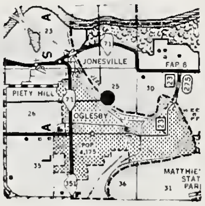
Mine Index U059 Opened -- Closed 1926

Environmental Locale Herbs-Shrubs-Trees

Mined by Ogelsby Coal Co.

Owner Private

Gob Volume 333,000 Problem Area Index 73



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
5.9	5.9					

Description:

This mine, located in Ogelsby, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and moderately eroded gob pile was 41 to 50 feet in height. Moderate ground cover and overstory vegetation were scattered on the refuse. Potential for drainage into the Vermilion River was observed. An access area to the river was located on the mine site.

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.3	2,800	1.8	27	110	28	10	4,300
Burned Gob	4.8	1,140	0.1	12	1.2	0.2	1.3	1,400
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County La Salle T 33N R 2E S 25

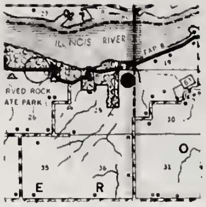
Mine Index U031 Opened -- Closed --

Environmental Locale Rural-Residential

Mined by Utica Mining Co.

Owner Private

Gob Volume 16,000 Problem Area Index 29



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
0.5	0.5					

Description:

This mine, located in a rural-residential area approximately 5 miles northeast of Vermilionville, consisted of problem acreage associated with a gob refuse area. The moderately sloped and severely eroded gob pile, utilized as a dump, was 21 to 30 feet in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

County La Salle T 33N R 2E S 30

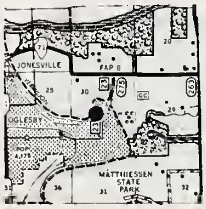
Mine Index U041 Opened -- Closed --

Environmental Locale Early Forest

Mined by Unknown

Owner Private

Gob Volume 77,000 Problem Area Index 41



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
1.9	1.9					

Description:

This mine, located in a forested area near Oglesby, consisted of problem acreage associated with an extensively burned gob refuse area. The steeply sloped and severely eroded gob pile was 41 to 50 feet in height. Poor ground cover and sparse overstory vegetation were scattered over the refuse. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U041

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	3,000	3.5	20	270	1.0	41	5,100
Burned Gob	4.6	610	0.1	9	1.5	0.1	0.6	620
Slurry								

County LaSalle T 33N R 2E S 30

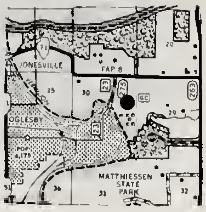
Mine Index U040 Opened -- Closed 1921

Environmental Locale Early Forest

Mined by Illinois Clay Products Company

Owner State of Illinois

Gob Volume 32,000 Problem Area Index 58



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.8	0.8					

Description:

This mine, located in a forested area near Oglesby, consisted of problem acreage associated with a gob refuse area. The steeply sloped and severely eroded gob pile, utilized as a dump, was 21 to 30 feet in height. Moderate ground cover and overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage into the Vermilion River existed at the mine site.

County La Salle T 33N R 2E S 30

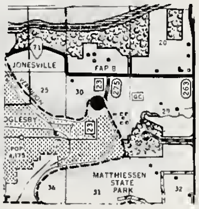
Mine Index U039 Opened -- Closed 1930

Environmental Locale Early Forest

Mined by Deer Park #5

Owner Marquette Cement Company

Gob Volume 22,000 Problem Area Index 55



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.5	0.5					

Description:

This mine, located in a forested area approximately 2.5 miles southwest of North Utica, consisted of problem acreage associated with a gob refuse area. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height. Poor ground cover and moderate overstory vegetation were restricted to the lower slope of the refuse. Continuous drainage was flowing into the Vermilion River.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U039

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	7.3	1,800	24	0.6	11	1.4	820
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.5	1,120	0.4	34	9.7	0.4	3.9	1,200
Burned Gob								
Slurry								

County LaSalle T 33N R 4E S 25

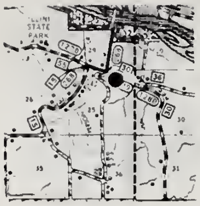
Mine Index L008 Opened 1890 Closed 1944

Environmental Locale Agricultural

Mined by Illinois Valley Coal Company

Owner Private

Gob Volume 1,851,000 Problem Area Index 183



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
8.8	3.9		0.5	2.2	2.2	

Description:

This mine, located in an agricultural area near Illini State Park, included problem acreage associated with two gob refuse areas, a tipple area, an on-site water impoundment, and an off-site terrestrial area. The larger gob pile was steeply sloped, severely eroded, and 71 to 80 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the lower slope of the refuse. The smaller gob pile was moderately sloped, severely eroded, and 31 to 40 feet in height. Poor ground cover vegetation was restricted to the perimeter, and moderate overstory vegetation was uniformly distributed on this refuse area. Machinery and buildings remained on the moderately vegetated tipple area which was utilized as a dump. Runoff from the gob had affected an on-site water impoundment and an off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County La Salle T 33N R 5E S 24

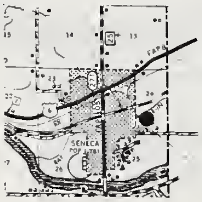
Mine Index U012 Opened -- Closed --

Environmental Locale Agricultural

Mined by George Tatterson

Owner A. L. Mechling Barge Lines Inc.

Gob Volume 3,200 Problem Area Index 20



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.5	0.5					

Description:

This mine, located in an agricultural area near Seneca, consisted of problem acreage associated with a small gob refuse area. The gob pile had been graded and was less than 10 feet in height. Moderate ground cover and sparse overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

L008

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.8	1,520	245	32	3.6	5.8	960
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	7.6	450	5	0.1	0.5	0.0	120
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	4,500	9.9	17	690	13	36	8,600
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Livingston T 26N R 6E S 2

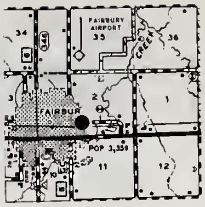
Mine Index U004 Opened --- Closed ---

Environmental Locale Urban-Residential

Mined by Unknown

Owner Private

Gob Volume 20,000 Problem Area Index 35



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.5	0.5					

Description:

This mine, located in an urban-residential area in Fairbury, consisted of problem acreage associated with a small gob refuse area. The moderately sloped and eroded gob pile, utilized as a dump, was 21 to 30 feet in height. Sparse ground cover and overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams was not observed.

County Livingston T 26N R 6E S 5

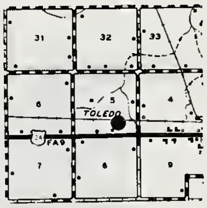
Mine Index U001 Opened 1890 Closed 1926

Environmental Locale Agricultural

Mined by Cooperative Coal Company

Owner Private

Gob Volume 73,000 Problem Area Index 46



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
2.5	1.0				1.5	

Description:

This mine, located in an agricultural area approximately 1.5 miles west of Fairbury, consisted of problem acreage associated with an extensively burned gob refuse area and an off-site terrestrial area. The gob pile, utilized as a dump, was steeply sloped, severely eroded, and 41 to 50 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of the refuse. Runoff from the refuse area had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.5	1,010	0.3	28	13	0.2	4.7	1,100
Burned Gob	3.6	5,000	2.3	23	130	0.8	48.0	8,900
Slurry								

County Livingston T 30N R 3E S 1

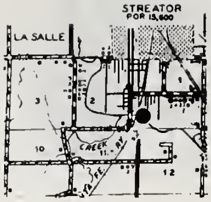
Mine Index U015 Opened --- Closed ---

Environmental Locale Urban-Residential

Mined by Unknown

Owner Private

Gob Volume 81,000 Problem Area Index 56



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
3.9	2.0					1.9

Description:

This mine, located in an urban-residential area near Streator, consisted of problem acreage associated with a gob refuse area and an off-site aquatic area. The moderately sloped and severely eroded gob pile was 21 to 30 feet in height. Poor ground cover and sparse overstory vegetation were present on the refuse. Runoff from the gob had affected an adjacent off-site aquatic area, and potential for drainage to adjacent streams existed at the mine.

County Livingston T 30N R 3E S 1

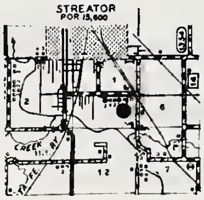
Mine Index U006 Opened 1893 Closed 1923

Environmental Locale Urban-Industrial

Mined by Streator Clay Manufacturing Company

Owner Private

Gob Volume 121,000 Problem Area Index 47



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
3.7	3.0			0.1	0.6	

Description:

This mine, located in an urban-industrial area near Streator, consisted of problem acreage associated with a partially burned gob refuse area, an on-site water impoundment, and an off-site terrestrial area. The severely eroded gob pile, utilized as a dump, was 21 to 30 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Runoff from the gob had affected an on-site water impoundment and an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

U015

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	8.6	750	0	0.1	1.6	0.0	210
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

U006

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.0	10,400	13,000	790	2,900	5.7	15,200
Below Mine							
Gob Pools	2.6	2,700	1,400	100	180	1.3	1,700
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	1.9	12,800	53	99	1,100	6,200	6.4	24,000
Burned Gob								
Slurry								

County Livingston T 30N R 3E S 3

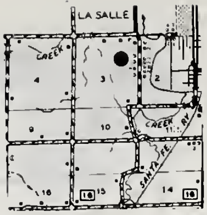
Mine Index L001 Opened 1930 Closed 1939

Environmental Locale Agricultural

Mined by Coalville Coal Company

Owner Private

Gob Volume 48,000 Problem Area Index 37



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
1.2	1.2					

Description:

This mine, located in an agricultural area near Streator, consisted of problem acreage associated with an extensively burned gob refuse area. The moderately sloped and severely eroded gob pile was 21 to 30 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Livingston T 30N R 3E S 3

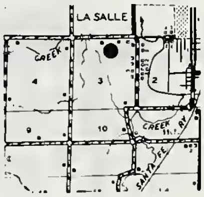
Mine Index U043 Opened -- Closed --

Environmental Locale Agricultural

Mined by Unknown

Owner Private

Gob Volume 19,000 Problem Area Index 28



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
0.8	0.8					

Description:

This mine, located in an agricultural area approximately 0.5 mile west of Streator, consisted of problem acreage associated with a partially burned gob refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Poor ground cover vegetation was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Livingston T 30N R 3E S 11

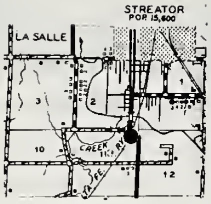
Mine Index U044 Opened -- Closed --

Environmental Locale Agricultural

Mined by Coal Run Coal Co.

Owner Private

Gob Volume 19,000 Problem Area Index 31



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
0.9	0.6				0.3	

Description:

This mine, located in an agricultural area near Streator, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The severely eroded gob pile was 21 to 30 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were restricted to the refuse perimeter. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Livingston T 30N R 8E S 22

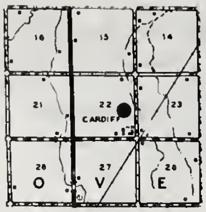
Mine Index U051 Opened -- Closed 1913

Environmental Locale Agricultural

Mined by Cardiff Coal Company

Owner Private

Gob Volume 374,300 Problem Area Index 113



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
10.4	5.5		2.7		1.7	0.5

Description:

This mine, located in an agricultural area near Cardiff, consisted of problem acreage associated with three gob refuse areas, a tipple area, an off-site terrestrial area, and an off-site aquatic area. The largest extensively burned gob pile was steeply sloped, severely eroded, and 71 to 80 feet in height. Poor ground cover vegetation was uniformly distributed on the refuse. The second partially burned gob pile was steeply sloped, severely eroded, and 21 to 30 feet in height. The smallest gob pile was moderately eroded and 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover vegetation was scattered on this unburned gob pile. Buildings and foundations were present on the tipple area which supported good ground cover vegetation. Runoff from the gob refuse area had affected adjacent off-site terrestrial and aquatic areas, and potential for drainage to adjacent streams existed at the mine.

County Livingston T 30N R 8E S 23

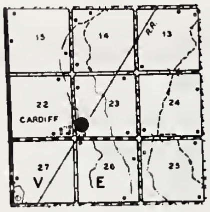
Mine Index U052 Opened 1900 Closed 1907

Environmental Locale Agricultural

Mined by Cardiff Coal Company

Owner Private

Gob Volume 28,000 Problem Area Index 31



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
0.5	0.5					

Description:

This mine, located in an agricultural area near Cardiff, consisted of problem acreage associated with an extensively burned gob refuse area. The moderately sloped and severely eroded gob pile was 31 to 40 feet in height. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

U051

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	7.6	1,710	3	0.1	0.2	0.0	940
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	4.4	140	0.1	54	0.2	Tr	0.7	100
#2	2.4	7,400	28	9	1,800	280	69	15,300
Burned Gob #1	4.4	2,300	0.3	9	13	0.2	0.4	3,400
#2	4.2	1,320	0.1	9	0.8	1.2	5.8	1,500

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Logan T 19N R 2W S 5

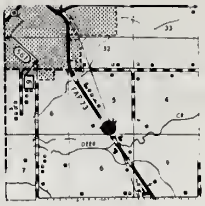
Mine Index L001 Opened 1936 Closed 1968

Environmental Locale Agricultural

Mined by El-Ben Coal Company

Owner Private

Gob Volume 3,900 Problem Area Index 21



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.8	0.8					

Description:

This mine, located in an agricultural area approximately 1 mile southeast of Lincoln, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped gob pile, part of which had been removed, was 21 to 30 feet in height. Sparse ground cover and overstory vegetation were restricted to the refuse perimeter. A 2.3-acre well-vegetated tipple area, which was not a problem, and an unpolluted water impoundment were also present at the mine site. Potential for drainage to adjacent streams was not observed.

County Logan T 20N R 2W S 32

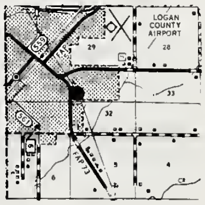
Mine Index U004 Opened --- Closed ---

Environmental Locale Urban-Industrial

Mined by Brewerton Coal Company

Owner Private

Gob Volume 5,600 Problem Area Index 16



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
3.4	3.4					

Description:

This mine, located in an urban-industrial area in Lincoln, consisted of problem acreage associated with a gob refuse area. The steeply sloped gob pile had been graded and was 11 to 20 feet in height. Good ground cover and sparse overstory vegetation were present on the refuse. Potential for drainage to adjacent streams was not observed.

L001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.1	7,400	12.0	189	190	730.0	21	7,500
Burned Gob	3.8	2,600	0.7	3	46	0.3	13	3,700
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Macoupin T 7N R 6W S 6

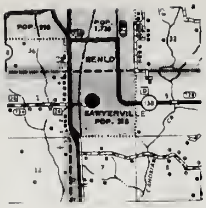
Mine Index S007 Opened 1904 Closed 1953

Environmental Locale Urban-Residential

Mined by Superior Coal Co.

Owner Private

Gob Volume 203,000 Problem Area Index 113



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
13.7	8.4				5.3	

Description:

This mine, located in an urban-residential area near Sawyerville, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height. Sparse ground cover vegetation was restricted to the perimeter of the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Macoupin T 7N R 6W S 9

Mine Index S002 Opened 1905 Closed 1951

Environmental Locale Rural-Residential

Mined by Consolidated Coal Co.

Owner Private

Gob Volume 859,000 Problem Area Index 207

Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
68.1	53.3		5.0		8.7	1.1

Description:

This mine, located in a rural-residential area near White City, consisted of problem acreage associated with two gob refuse areas, a tipple area, an off-site terrestrial area, and an off-site aquatic area. The larger gob pile was 21 to 30 feet in height with a gentle slope. Moderate ground cover vegetation was uniformly distributed on the refuse, while sparse overstory vegetation occurred on the refuse perimeter. The smaller partially burned gob pile was steeply sloped, severely eroded, and 41 to 50 feet in height. Sparse ground cover vegetation was restricted to the refuse perimeter. Buildings and a 0.3-mile gob road remained on the sparsely vegetated tipple area. Runoff from the gob and tipple had affected adjacent off-site terrestrial and aquatic areas, and potential for drainage to adjacent streams existed at the mine site.

S007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.7	7,000	4,200	320	1,800	16	8,400
Below Mine	2.3	7,900	12,200	1,500	550	20	16,400
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	8.0	860	5	0.2	1.0	0.0	310
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.2	6,800	18.3	167	670	1,100	3.0	9,300
Burned Gob								
Slurry								

S002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.1	11,200	13,900	890	250	14.4	15,100
Below Mine	3.0	2,700	485	27	1.6	4.3	1,800
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial	3.6	390	130	7.5	14	4.4	830

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.1	8,100	19	164	860	530	10	11,500
Burned Gob								
Slurry								

County Macoupin T 7N R 6W S 21

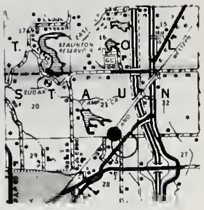
Mine Index S001 Opened 1882 Closed 1952

Environmental Locale Agricultural

Mined by Consolidated Coal Co.

Owner Staunton Sportsman's Club

Gob Volume 316,000 Problem Area Index 114



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
34.0	9.8		3.3		20.9	

Description:

This mine, located in an agricultural area near Staunton, consisted of problem acreage associated with a partially burned gob refuse area, a tipple area, and an off-site terrestrial area. The moderately sloped and severely eroded gob pile, utilized as a dump, was 61 to 70 feet high. Sparse ground cover vegetation was restricted to the lower slope of the refuse. Foundations, buildings, and a 0.3-mile gob road remained on the tipple area. Runoff from the gob and tipple had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams existed at the mine.

County Macoupin T 7N R 6W S 30

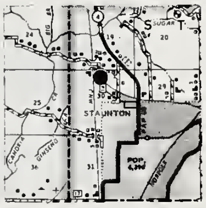
Mine Index U024 Opened 1903 Closed 1949

Environmental Locale Rural-Residential

Mined by Consolidated Coal Co.

Owner Tubular Steel Inc.

Gob Volume N.A. Problem Area Index N.A.



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
Not Applicable						

Description:

At the time of the survey this mine site, located in a rural residential area near Staunton, consisted of approximately 20 problem acres associated with gob, slurry, and off-site terrestrial areas. Subsequent to the field survey, an experimental grading and vegetation study was initiated in November 1976 by Argonne National Laboratory. Consequently, information obtained during the field survey is no longer applicable.

S001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	7.8	850	5	0.6	1.5	0.0	380
Gob Pools	2.7	8,600	8,700	700	220	18	10,100
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial	2.8	4,000	1,300	460	220	25	2,300

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.1	8,900	26	132	1,100	1,200	11	14,600
Burned Gob	2.7	2,900	7.8	33	450	320	1.2	4,400
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Macoupin T 7N R 7W S 10

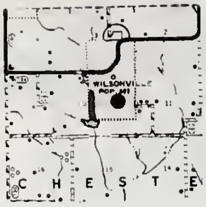
Mine Index S009 Opened 1918 Closed 1954

Environmental Locale Urban-Residential

Mined by Superior Coal Co.

Owner Private

Gob Volume 1,000,000 Problem Area Index 212



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
46.7	31.0				15.7	

Description:

This mine, located in an urban-residential area near Wilsonville, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area; potential for drainage to adjacent streams existed at the mine.

County Macoupin T 7N R 8W S16

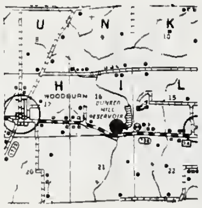
Mine Index U015 Opened --- Closed 1883

Environmental Locale Agricultural

Mined by Crow Hollow Coal Co.

Owner City of Bunker Hill

Gob Volume 3,500 Problem Area Index 20



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
0.4	0.4					

Description:

This mine, located in an agricultural area approximately 1 mile west of Bunker Hill, consisted of problem acreage associated with a small gob refuse area. The moderately sloped and eroded gob pile, utilized as a dump, was 11 to 20 feet in height. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

S009

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.1	7,400	1,500	70	2.5	22	8,600
Below Mine	2.8	7,200	3,900	120	450	22	7,700
Gob Pools	2.7	2,600	1,000	97	14	3.3	1,900
Slurry Pools							
Flooded Openings	7.4	2,900	16	5.9	53	0.0	1,300
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial	2.4	6,300	3,300	200	210	31	7,000

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,600	0.8	69	0.7	5.8	0.5	3,400
Burned Gob								
Slurry								

U015

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.1	1,700	0.6	152	17	2.4	1.0	1,900
Burned Gob								
Slurry								

County Macoupin T 7N R 8W S 35

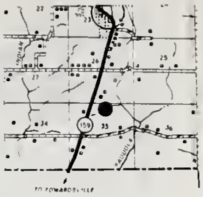
Mine Index U019 Opened -- Closed 1914

Environmental Locale Forest

Mined by Jorden Mine

Owner Private

Gob Volume 500 Problem Area Index 14



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.1	0.1					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 1.5 miles south of Bunker Hill. The steeply sloped and moderately eroded gob pile was less than 10 feet in height. Sparse ground cover and moderate overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

County Macoupin T 8N R 6W S 7

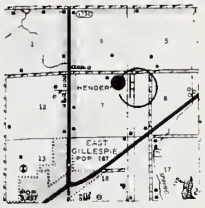
Mine Index U087 Opened 1923 Closed 1925

Environmental Locale Agricultural

Mined by Perry Coal Co.

Owner F-C Coal Co.

Gob Volume 6,400 Problem Area Index 22



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.7	0.7					

Description:

This mine, located in an agricultural area approximately 1.5 miles north of Gillespie, consisted of problem acreage associated with a gob refuse area. The moderately sloped and eroded gob pile was 11 to 20 feet in height. Poor ground cover was scattered on the refuse. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Macoupin T 8N R 6W S 9

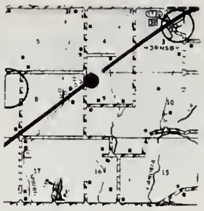
Mine Index U063 Opened 1887 Closed 1906

Environmental Locale Agricultural

Mined by Consolidated Coal Co.

Owner Private

Gob Volume 16,000 Problem Area Index 37



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
8.1	0.6				7.5	

Description:

This mine, located in an agricultural area approximately 3 miles northeast of Gillespie, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The moderately sloped and severely eroded gob pile was 31 to 40 feet high. Sparse ground cover vegetation was restricted to the refuse perimeter. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County Macoupin T 8N R 6W S 17

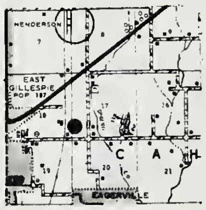
Mine Index U086 Opened -- Closed --

Environmental Locale Agricultural

Mined by Unknown

Owner Superior Coal Co.

Gob Volume 922,000 Problem Area Index 222



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
58.1	47.6				6.4	4.1

Description:

This mine, located in an agricultural area approximately 0.5 mile east of Gillespie, consisted of problem acreage associated with a partially burned gob refuse area, an off-site terrestrial area, and an off-site aquatic area. The steeply sloped and severely eroded gob pile was 51 to 60 feet in height. Sparse ground cover vegetation was restricted to the lower slope of the refuse. Runoff from the gob had affected adjacent off-site terrestrial and aquatic areas, and potential for drainage to adjacent streams existed at the mine.

U063

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	1,890	0.9	78	25	0.9	0.4	2,200
Burned Gob	3.9	2,500	1.0	1	70	0.2	0.2	3,600
Slurry								

U086

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.3	11,100	13,800	820	480	21	17,200
Below Mine	2.2	15,100	27,800	2,500	1,100	23	41,000
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	1.9	10,900	34	373	820	2,900	6.1	18,200
Burned Gob	2.6	4,800	18	22	880	1,200	5.8	10,200
Slurry								

County Macoupin T 8N R 6W S 18

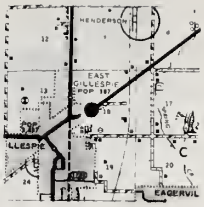
Mine Index U089 Opened --- Closed 1911

Environmental Locale Urban-Residential

Mined by Consolidated Coal Co.

Owner Private

Gob Volume 1,300 Problem Area Index 24



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.5	0.5					

Description:

This mine, located in an urban-residential area in East Gillespie, consisted of problem acreage associated with a gob refuse area. Part of the gob pile, which was less than 10 feet in height, had been removed. Moderate ground cover and overstory vegetation were scattered over the refuse. An open airshaft located on the tipple area constituted a hazard. The rest of the 3.4-acre tipple area was not a problem. Potential for drainage to adjacent streams was not observed.

County Macoupin T 8N R 6W S 29

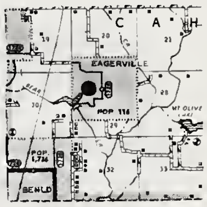
Mine Index S006 Opened 1904 Closed 1951

Environmental Locale Rural-Residential

Mined by Superior Coal Co.

Owner Private

Gob Volume 28,100 Problem Area Index 136



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
52.7	8.6		1.4	24.1	18.6	

Description:

This mine, located in a rural-residential area near Eagarville, consisted of problem acreage associated with two gob refuse areas, a tipple area, two on-site water impoundments, and an off-site terrestrial area. The larger gob pile was severely eroded and 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were restricted to the refuse perimeter. The smaller gob pile, which had been graded, was severely eroded and averaged 2 feet in height. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. Buildings, foundations, a 0.2-mile gob road, and a 0.3-mile railroad remained on the tipple area. Runoff from the gob had affected two on-site water impoundments and an off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

S006

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	4.6	5,700	235	29	8.0	7.2	6,100
Below Mine	5.1	1,990	55	2.0	3.2	1.8	1,400
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.4	870	7	0.5	4.0	0.0	330
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	2.6	3,300	2.4	115	70	0.4	0.4	4,100
Burned Gob #2	2.6	5,300	8.1	167	340	0.4	0.5	6,600
Slurry								

County Macoupin T 8N R 7W S 13

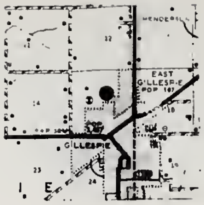
Mine Index S003 Opened 1919 Closed 1968

Environmental Locale Urban-Residential

Mined by Florida Coal Co.

Owner Private

Gob Volume 496,000 Problem Area Index 207



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
54.9	9.5	16.2	11.4		17.8	

Description:

This mine, located in an urban-residential area near East Gillespie, consisted of problem acreage associated with two gob refuse areas, three slurry refuse areas, a tipple area, and an off-site terrestrial area. The two gob piles, similar in size, were both steeply sloped, severely eroded, and had no vegetation. One gob pile was 51 to 60 feet in height and partially burned, while the other was 41 to 50 feet in height and unburned. The three slurry areas, two of which were severely eroded, were barren of vegetation. Building foundations, a 0.3-mile gravel road, and a 0.3-mile railroad remained on the barren tipple area. Runoff from the gob and slurry had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Macoupin T 9N R 9W S 2

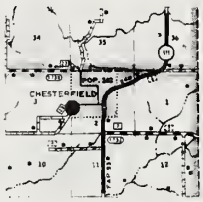
Mine Index U022 Opened -- Closed 1895

Environmental Locale Agricultural

Mined by Bremen Coal Co.

Owner Private

Gob Volume 8,100 Problem Area Index 24



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
1.7	0.5				1.2	

Description:

This mine, located in an agricultural area near Chesterfield, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The moderately sloped and eroded gob pile was 11 to 20 feet in height. Moderate ground cover and overstory vegetation were restricted to the mid-slope of the gob pile. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

S003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	2.8	2,800	375	23	83	6.0	1,400
Gob Pools	1.9	9,900	11,800	540	3,500	13	11,000
Slurry Pools	2.2	4,800	3,000	180	920	6.7	4,500
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial	3.0	3,300	305	37.0	18	2.0	1,900

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	1.8	17,500	104	326	2,700	13,300	1.8	50,000
#2	2.1	11,000	55	170	1,700	5,800	1.4	26,000
Burned Gob	2.3	10,800	71	141	5,000	3,400	24	34,000
Slurry #1	2.3	5,400	4.6	205	150	200	3.9	5,100
#2	2.5	4,100	3.7	216	75	100	0.9	4,500

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Macoupin T 10N R 6W S 4

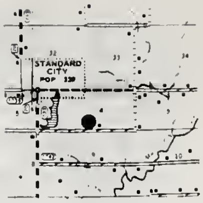
Mine Index S018 Opened 1918 Closed 1952

Environmental Locale Agricultural

Mined by Standard Mining & Converters Co.

Owner Staunton Mining Co.

Gob Volume 4,100 Problem Area Index 50



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
31.6	3.1		7.6		20.9	

Description:

This mine, located in an agricultural area near Standard City, consisted of problem acreage associated with a gob refuse area, a tipple area, and an off-site terrestrial area. The moderately eroded gob pile averaged 1 foot in height. Moderate ground cover and overstory vegetation were present on the refuse. Buildings and foundations remained on the sparsely vegetated tipple area. Runoff from the gob refuse had affected the tipple area and an off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County Macoupin T 10N R 7W S 33

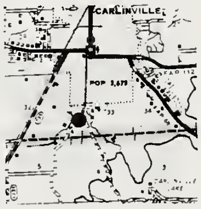
Mine Index S005 Opened 1919 Closed 1954

Environmental Locale Urban-Residential

Mined by Carlinville Coal Mining Co. Inc.

Owner Private

Gob Volume 14,000 Problem Area Index 34



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
4.5	4.5					

Description:

This mine, located in an urban-residential area near Carlinville, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile, utilized as a dump, was 11 to 20 feet in height. Poor ground cover and moderate overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams was not observed.

S018

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.7	3,600	3.4	114	1,700	18	2.8	4,500
Burned Gob								
Slurry								

S005

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.2	1,340	70	0.1	0.8	0.0	600
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.4	4,800	4.0	208	71	56	0.2	4,600
Burned Gob	3.3	2,300	1.4	25	86	1.0	0.9	2,800
Slurry								

County Macoupin T 10N R 9W S 29

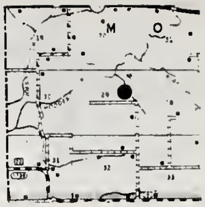
Mine Index U040 Opened -- Closed --

Environmental Locale Agricultural

Mined by Unknown

Owner Sentry Royalty Co.

Gob Volume 200 Problem Area Index 16



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.1	0.1					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 3.5 miles northwest of Chesterfield. The graded gob pile averaged 1 foot in height. Sparse ground cover and light overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams was not observed.

County Macoupin T 11N R 6W S 5

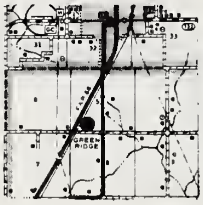
Mine Index U007 Opened -- Closed 1924

Environmental Locale Agricultural

Mined by Union Fuel Co.

Owner Private

Gob Volume 2,900 Problem Area Index 20



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.6	0.6					

Description:

This mine, located in an agricultural area near Girard, consisted of problem acreage associated with a partially burned gob refuse area. The moderately sloped and eroded gob pile was 11 to 20 feet in height. Poor ground cover and moderate overstory vegetation were restricted to the perimeter of the refuse. An unpolluted 1.8-acre water impoundment was also present at the mine site. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.8	1,320	8	0.2	0.7	0.0	470
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Macoupin T 12N R 6W S 8

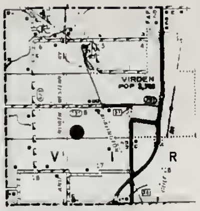
Mine Index U005 Opened -- Closed 1923

Environmental Locale Agricultural

Mined by Royal Colliery Co.

Owner City of Virden

Gob Volume 15,000 Problem Area Index 37



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
11.0	5.1				5.9	

Description:

This mine, located in an agricultural area near Virden, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The steeply sloped and severely eroded gob pile, part of which had been removed, was 21 to 30 feet in height. Sparse ground cover vegetation was restricted to the perimeter of the refuse. The area was utilized as a dump. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County Macoupin T 12N R 6W S 9

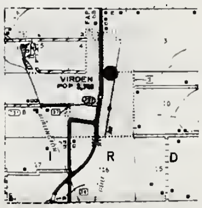
Mine Index S010 Opened 1895 Closed 1960

Environmental Locale Urban-Residential

Mined by Virden Mining Corp.

Owner Private

Gob Volume 31,000 Problem Area Index 49



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
13.1	3.0		1.1		9.0	

Description:

This mine, located in an urban-residential area in Virden, consisted of problem acreage associated with a gob refuse area, a tipple area, and an off-site terrestrial area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Part of the refuse, utilized as a dump, had been removed. Poor ground cover and sparse overstory vegetation were restricted to the perimeter of the refuse. Foundations and buildings remained on the moderately vegetated tipple area. Runoff from the gob refuse had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

U005

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.1	8,700	45	92	1,600	4,300	6.0	23,000
Burned Gob								
Slurry								

S010

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	3,200	2.0	147	57	29	2.8	3,800
Burned Gob								
Slurry								

County Madison T 3N R 7W S 16

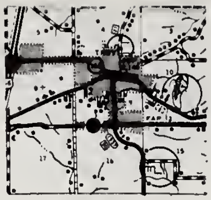
Mine Index U061 Opened 1883 Closed 1911

Environmental Locale Agricultural

Mined by Brookside Coal Co.

Owner Private

Gob Volume 8,600 Problem Area Index 25



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
1.8	1.8					

Description:

This mine, located in an agricultural area near Troy, consisted of problem acreage associated with two gob refuse areas. The smaller of the two gob piles averaged 1 foot in height with uniformly distributed ground cover vegetation. The larger of the two gob piles was severely eroded and averaged 3 feet in height. Part of the gob had been removed from this refuse area which supported moderate ground cover and overstory vegetation. Potential for drainage to adjacent streams was not observed.

County Madison T 3N R 8W S 17

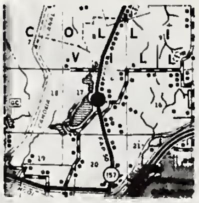
Mine Index L002 Opened 1931 Closed 1949

Environmental Locale Lake

Mined by Sugar Loaf Coal Corp.

Owner Private

Gob Volume 6,600 Problem Area Index 26



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
4.1	4.1					

Description:

This mine, located near a lake approximately 1.5 miles north of Collinsville, consisted of problem acreage associated with a gob refuse area. Part of the gob had been removed from this severely eroded refuse area which averaged 1 foot in height. Poor ground cover and moderate overstory vegetation were scattered on the refuse. A 0.9-acre tipple area at the mine site was not a problem. Potential for drainage to adjacent streams was not observed.

U061

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as CaCO$_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO$_4^{-2}$ mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H$^+$/100g	Pot. Acidity meq H$^+$/100g	Al ppm	Fe ppm	Mn ppm	SO$_4^{-2}$ ppm
Unburned Gob	3.1	300	0.3	33	16	0.8	6.4	120
Burned Gob								
Slurry								

L002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as CaCO$_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO$_4^{-2}$ mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	7.2	550	17	0.2	0.7	0.0	480
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H$^+$/100g	Pot. Acidity meq H$^+$/100g	Al ppm	Fe ppm	Mn ppm	SO$_4^{-2}$ ppm
Unburned Gob	2.5	3,800	3.4	246	150	39	1.6	4,500
Burned Gob								
Slurry								

County Madison T 3N R 8W S 17

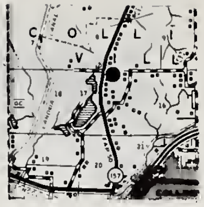
Mine Index L003 Opened 1932 Closed 1958

Environmental Locale Rural-Residential

Mined by Glen Carbon Coal Co.

Owner Private

Gob Volume 11,000 Problem Area Index 28



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
3.4	3.4					

Description:

This mine, located in a rural-residential area approximately 2 miles north of Collinsville, consisted of problem acreage associated with a gob refuse area. The moderately sloped and severely eroded gob pile was less than 10 feet in height. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

County Madison T 3N R 8W S 23

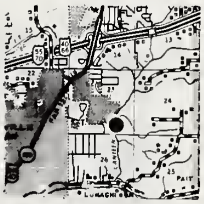
Mine Index S007 Opened 1950 Closed 1964

Environmental Locale Agricultural

Mined by Lumaghi Coal Co.

Owner Belleville National Bank

Gob Volume 203,000 Problem Area Index 128



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
54.5	26.2	15.8			12.5	

Description:

This mine, located in an agricultural area near Collinsville, consisted of problem acreage associated with a partially burned gob refuse area, a slurry refuse area, and an off-site terrestrial area. The severely eroded gob pile, utilized as a dump, was 11 to 20 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the perimeter of the refuse. A portion of the slurry had been removed by a carbon recovery operation. The slurry area was severely eroded and barren. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

S007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.8	840	9	0.1	0.6	0.0	130
General Runoff							
Below Mine							
Gob Pools	3.2	1,470	155	8.2	15	2.7	790
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type		pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	#1	2.2	10,000	60	146	2,400	4,200	15	29,000
	#2	1.7	6,100	16	66	280	1,300	10	18,700
Burned Gob	#1	3.8	760	0.3	17	19	1.0	2.6	760
	#2	2.3	13,900	120	37	7,800	6,600	59	57,000
Slurry		7.2	2,700	0.1	270	6.7	1.0	52	3,900

County Madison T 3N R 8W S 25

Mine Index S004 Opened 1901 Closed 1950

Environmental Locale Agricultural

Mined by Lumaghi Coal Co.

Owner Private

Gob Volume 1,800,000 Problem Area Index 218

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
44.9	21.2	6.4		0.8	16.5	

Description:

This mine, located in an agricultural area approximately 1 mile east of Collinsville, consisted of problem acreage associated with three gob refuse areas, a slurry refuse area, an on-site water impoundment, and an off-site terrestrial area. The largest partially burned gob pile was steeply sloped, severely eroded, and 81 to 90 feet in height. Sparse ground cover and overstory vegetation were scattered on this refuse. The second gob pile was moderately sloped and eroded and 11 to 20 feet in height with poor ground cover vegetation on its perimeter. The smallest gob pile was severely eroded and averaged 2 feet in height; poor ground cover and sparse overstory vegetation were scattered on this refuse. The severely eroded slurry area was holding surface water and supported sparse vegetation. A portion of the slurry had been removed due to a carbon recovery operation. Runoff from the gob and slurry refuse had affected an on-site water impoundment and on off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Madison T 3N R 8W S 26

Mine Index U062 Opened 1903 Closed 1942

Environmental Locale Rural-Residential

Mined by Lumaghi Coal Co.

Owner Private

Gob Volume 5,500 Problem Area Index 25

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
3.4	3.4					

Description:

This mine, located in a rural-residential area near Collinsville, consisted of problem acreage associated with a partially burned gob refuse area. The moderately eroded gob pile had been graded and averaged 1 foot in height. Poor ground cover and moderate overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

S004

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.7	1,010	10	0.6	3.2	3.3	140
General Runoff							
Below Mine	6.3	1,160	115	87	2,800	4.6	1,400
Gob Pools							
Permanent Slurry Pools	2.2	4,800	4,400	190	1,300	13.0	9,500
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.2	560	17	0.3	0.8	0.0	41
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
#1	3.3	350	0.3	278	6.0	36	0.4	140
Unburned Gob #2	1.7	19,100	90	365	1,400	220	7.2	41,000
#3	2.4	5,400	16	169	450	1,400	24	9,400
Burned Gob	2.B	2,600	6.3	11	370	1.6	2.9	4,300
Slurry	3.2	5,500	9.3	168	600	220	193	10,300

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Madison T 3N R 8W S 27

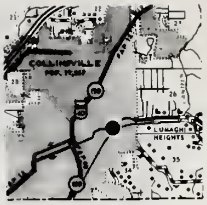
Mine Index U052 Opened 1901 Closed 1950

Environmental Locale Urban-Industrial

Mined by Lumaghi Coal Co.

Owner Private

Gob Volume 65,000 Problem Area Index 37



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.9	2.0				0.9	

Description:

This mine, located in an urban-industrial area in Collinsville, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height and barren. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County Madison T 3N R 8W S 36

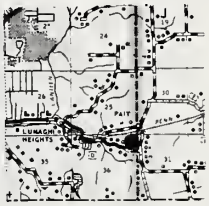
Mine Index U139 Opened 1883 Closed 1886

Environmental Locale Rural-Residential

Mined by Confidence Coal Co.

Owner Private

Gob Volume 2,100 Problem Area Index 21



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.6	0.6					

Description:

This mine, located in a rural-residential area approximately 2 miles east of Collinsville, consisted of problem acreage associated with a gob refuse area. The gob pile averaged 2 feet in height with a 3 to 15 percent slope. Poor ground cover and light overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

U052

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.0	16,100	135	69	5,200	12,400	28	65,000
Burned Gob	2.3	16,900	180	30	10,300	13,900	70	83,000
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Madison T 4N R 8W S 12

Mine Index L008 Opened 1910 Closed 1945

Environmental Locale Urban-Residential

Mined by Edwardsville Coal Co.

Owner Private

Gob Volume 400 Problem Area Index 22

Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an urban-residential area near Edwardsville. The moderately eroded gob pile averaged only 1 foot in height. Sparse ground cover and overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Madison T 4N R 8W S 29

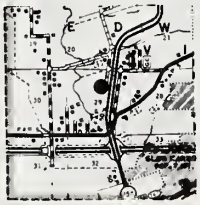
Mine Index U095 Opened -- Closed --

Environmental Locale Agricultural

Mined by Ind. Small Co.

Owner Private

Gob Volume 5,600 Problem Area Index 25



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.7	0.7					

Description:

This mine, located in an agricultural area approximately 1.5 miles northwest of Glen Carbon, consisted of problem acreage associated with two partially burned, small gob refuse piles. Both gob piles were moderately sloped, eroded, and less than 10 feet in height. Moderate ground cover was scattered over both areas. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Madison T 4N R 8W S 29

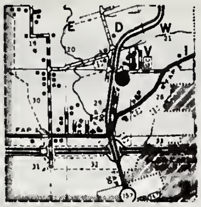
Mine Index L010 Opened 1936 Closed 1952

Environmental Locale Agricultural

Mined by Truck Trade Coal Co.

Owner Private

Gob Volume 3,400 Problem Area Index 20



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.7	0.7					

Description:

This mine, located in an agricultural area approximately 1.5 miles northeast of Glen Carbon, consisted of problem acreage associated with a small gob refuse area. The steeply sloped and moderately eroded gob pile had been graded and was less than 10 feet in height. Poor ground cover vegetation was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Madison T 4N R 8W S 34

Mine Index U069 Opened --- Closed 1932

Environmental Locale Urban-Residential

Mined by Madison Coal Co.

Owner Private

Gob Volume 81,000 Problem Area Index 60

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
6.2	6.2					

Description:

This mine, located in an urban-residential area in Glen Carbon, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile, utilized as a dump, was 11 to 20 feet in height. Sparse ground cover and overstory vegetation were restricted to the refuse perimeter. Drainage from the gob into an adjacent stream was observed.

County Madison T 5N R 9W S 1

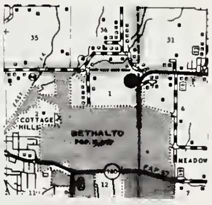
Mine Index L024 Opened 1893 Closed 1942

Environmental Locale Rural-Residential

Mined by Sunrise Coal Co.

Owner Madison County-Roadside Park

Gob Volume 500 Problem Area Index 19



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.5	0.1				0.4	

Description:

This mine, located in a rural-residential area near Bethalto, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The moderately sloped gob pile was 11 to 20 feet in height with poor ground cover and moderate overstory vegetation scattered throughout. Potential for drainage to adjacent streams was not observed.

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	8.0	1,020	3	0.1	0.3	0.0	1,000
General Runoff							
Below Mine	6.5	1,220	70	0.5	6.0	2.9	1,200
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	3,100	1.5	262	72	48	0.4	1,200
Burned Gob	2.6	5,600	12	72	420	750	2.6	8,400
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Madison T 6N R 6W S 10

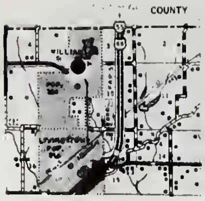
Mine Index S006 Opened 1904 Closed 1957

Environmental Locale Agricultural

Mined by Mt. Olive and Staunton Coal Co.

Owner Mt. Olive and Staunton Coal Co.

Gob Volume 1,948,000 Problem Area Index 349



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
131.9	76.6	2.8	9.5	21.2	21.8	

Description:

This mine, located in an agricultural area near Williamson, consisted of problem acreage associated with two gob refuse areas, a slurry refuse area, an on-site water impoundment, and an off-site terrestrial area. The largest gob pile was steeply sloped, severely eroded, and 61 to 70 feet in height. Sparse ground cover vegetation was restricted to the refuse perimeter. The second partially burned gob pile was moderately sloped, severely eroded, and 31 to 40 feet in height. Moderate ground cover vegetation was uniformly distributed on the refuse area. A few scattered trees were also present. Buildings, foundations, a 0.2-mile gob road, and a 0.3-mile railroad remained on the moderately vegetated tipple area. The slurry refuse area was severely eroded and had no vegetation. Runoff from the general mine area had affected an on-site water impoundment and an adjacent off-site terrestrial area. Potential for drainage to adjacent streams existed at the mine.

County Madison T 6N R 6W S 16

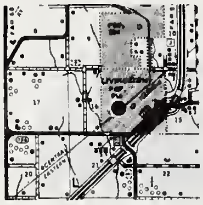
Mine Index S003 Opened 1905 Closed 1964

Environmental Locale Agricultural

Mined by Mt. Olive and Livingston Coal Co.

Owner Private

Gob Volume 66,000 Problem Area Index 53



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
7.7	4.1	0.5	2.2	0.6	0.3	

Description:

This mine, located in an agricultural area near Livingston, consisted of problem acreage associated with a partially burned gob refuse area, a slurry refuse area, a tipple area, an on-site water impoundment, and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height. Sparse ground cover vegetation was restricted to the perimeter of the refuse. The slurry area was barren of vegetation. Foundations and a 0.2-mile gob road remained on the poorly vegetated tipple area which was utilized as a dump. Runoff from the gob had affected an on-site water impoundment and an off-site terrestrial area. Drainage was flowing from the gob refuse area into an adjacent stream.

S006

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.3	16,000	11,500	1,100	1,000	37	19,000
Below Mine	2.8	4,700	1,900	180	890	10	3,100
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	2.9	1,270	325	14	31	3.0	440
Tipple-Temporary Water	2.3	7,700	5,600	370	440	22	7,100
Off-site Terrestrial	2.5	15,300	13,000	970	1,500	109	18,300

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
#1	2.5	4,000	4.8	66	230	40	0.8	5,000
Unburned Gob #2	2.7	1,500	1.1	252	19	9.3	0.4	980
#1	2.9	3,000	2.0	25	78	13	1.7	4,100
Burned Gob #2	3.1	2,300	0.7	25	14	2.2	0.3	3,500
Slurry								

S003

Drainage Samples

Sample Type		pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
General Runoff	#1	2.4	11,200	9,900	730	560	25	14,100
	#2	2.1	32,000	33,300	3,100	3,900	106	39,000
Below Mine		2.4	7,900	6,500	580	28	28	79
Gob Pools								
Slurry Pools								
Flooded Openings								
Flowing Openings								
On-site Impoundments		2.1	4,700	3,100	230	800	17	5,000
Off-site Aquatic								
Off-site Terrestrial		2.5	1,720	580	49	93	3.1	830

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.3	5,400	7.2	155	280	290	0.4	6,100
Burned Gob	3.6	2,400	0.9	14	81	1.8	0.5	3,500
Slurry	2.8	1,510	1.1	186	11	36	2.8	1,100

County Madison T 6N R 6W S 18

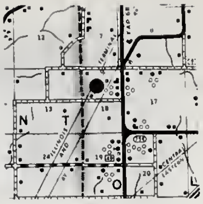
Mine Index U023 Opened --- Closed 1915

Environmental Locale Agricultural

Mined by De Camp Coal Co.

Owner Private

Gob Volume 18,000 Problem Area Index 36



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
3.0	0.9				1.6	0.5

Description:

This mine, located in an agricultural area approximately 2 miles west of Livingston, consisted of problem acreage associated with a partially burned gob refuse area, an off-site terrestrial area, and an off-site aquatic area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Runoff from the gob had affected adjacent off-site terrestrial and aquatic areas. A 1.2-acre moderately vegetated tipple area at the mine site was not a problem. Potential for drainage from the gob refuse to adjacent streams existed at the mine site.

County Madison T 6N R 7W S 25

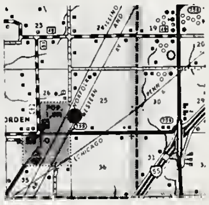
Mine Index U097 Opened --- Closed 1926

Environmental Locale Agricultural

Mined by Illinois Power & Light Co.

Owner Ill. Ter. Co.

Gob Volume 9,700 Problem Area Index 25



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.0	2.0					

Description:

This mine, located in an agricultural area near Worden, consisted of problem acreage associated with a partially burned gob refuse area. The moderately eroded gob pile averaged 3 feet in height. Moderate ground cover and overstory vegetation were uniformly distributed on the refuse. A 0.5-acre unpolluted water impoundment was also present on the mine site. Potential for drainage to adjacent streams was not observed.

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	3.7	2,800	180	20	5.2	2.7	1,800
Off-site Aquatic							
Off-site Terrestrial	2.4	5,400	3,600	510	400	20	4,600

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.1	8,600	25	31	1,400	810	20	14,900
Burned Gob	2.3	10,900	71	14	4,000	5,000	49	37,000
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Madison T 6N R 9W S 36

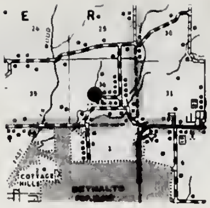
Mine Index U065 Opened --- Closed ---

Environmental Locale Agricultural

Mined by Unknown

Owner Private

Gob Volume 300 Problem Area Index 16



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.1	0.1					

Description:

A small gob pile with associated problem acreage was all that remained of this mine site located in an agricultural area near Bethalto. The gob pile covered a very small area and averaged 3 feet in height. Sparse ground cover vegetation was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Marion T 2N R 1E S 31

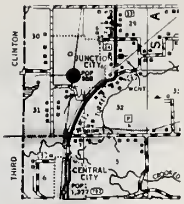
Mine Index S001 Opened 1907 Closed 1964

Environmental Locale Urban-Industrial

Mined by Marion County Coal Co.

Owner Centralia Engineering Corp.

Gob Volume 500 Problem Area Index 14



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
0.3	0.3					

Description:

This mine, located in an urban-industrial area in Junction City, consisted of problem acreage associated with a small gob refuse area. The severely eroded gob pile, barren of vegetation, had been graded and averaged 1 foot in height. The mine area was being used as an industrial storage yard. Potential for drainage to adjacent streams existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Marshall T 12N R 9E S 2

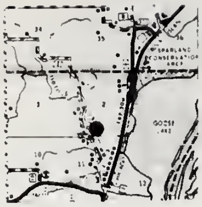
Mine Index U004 Opened --- Closed ---

Environmental Locale Early Forest

Mined by Unknown

Owner Private

Gob Volume 9,700 Problem Area Index 22



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.3	0.3					

Description:

A small, partially burned gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 1 mile north of Sparland. The moderately eroded gob pile was 21 to 30 feet in height with a 3 to 15 percent slope. A few scattered trees were present. Potential for drainage to adjacent streams was not observed.

County Marshall T 12N R 9E S 2

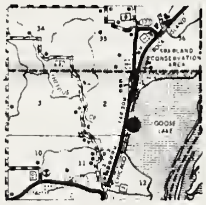
Mine Index U006 Opened --- Closed ---

Environmental Locale Rural-Residential

Mined by Unknown

Owner Private

Gob Volume 12,000 Problem Area Index 27



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.5	0.5					

Description:

A small, partially burned gob refuse area with associated problem acreage was all that remained of this mine located in a rural-residential area about 1 mile north of Sparland. The gently sloped and severely eroded gob pile was 11 to 20 feet in height. Poor ground cover and moderate overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Marshall T 12N R 9E S 2

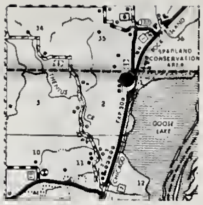
Mine Index U002 Opened -- Closed --

Environmental Locale Forest

Mined by Unknown

Owner Private

Gob Volume 48,000 Problem Area Index 39



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.6	1.5					0.1

Description:

This mine, located in a forested area approximately 1.5 miles north of Sparland, consisted of problem acreage associated with a partially burned gob refuse area and an off-site aquatic area. The moderately sloped and eroded gob pile was 21 to 30 feet in height. Good ground cover and heavy overstory vegetation were uniformly distributed on the refuse. Runoff from the gob had affected an adjacent off-site aquatic area, and potential for drainage to adjacent streams existed at the mine.

County Marshall T 12N R 9E S 11

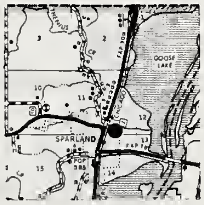
Mine Index U009 Opened --- Closed 1915

Environmental Locale Urban-Residential

Mined by Fulton Coal Co.

Owner Private

Gob Volume 65,000 Problem Area Index 52



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.7	1.6				0.1	

Description:

This mine, located in an urban-residential area in Sparland, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The moderately sloped and severely eroded gob pile was 21 to 30 feet in height. Scattered, poor ground cover and light overstory vegetation, restricted to the perimeter, were present on the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

U002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	4.4	3,100	105	0.3	12	6.8	2,500
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	3,000	2.1	42	95	5.6	8.8	4,300
Burned Gob								
Slurry								

U009

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	7,900	2.0	3	1,800	13	84	15,700
Burned Gob	4.4	200	0.2	11	0.9	0.2	0.4	130
Slurry								

County Marshall T 12N R 9E S 11

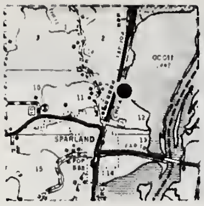
Mine Index L006 Opened 1932 Closed --

Environmental Locale Early Forest

Mined by McKinley Kear

Owner Private

Gob Volume 24,000 Problem Area Index 31



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.5	0.5					

Description:

A small, partially burned gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 0.5 mile north of Sparland. The moderately sloped and severely eroded gob pile was 31 to 40 feet in height. Poor ground cover and moderate overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent streams was observed.

County Marshall T 12N R 9E S 11

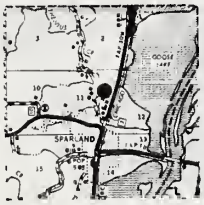
Mine Index L036 Opened -- Closed 1914

Environmental Locale Rural-Residential

Mined by Illinois Valley Coal Co.

Owner Private

Gob Volume 7,700 Problem Area Index 25



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.4	0.4					

Description:

A small, partially burned gob refuse area with associated problem acreage was all that remained of this mine located in a rural-residential area near Sparland. The uneroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent streams was not observed.

L006

Drainage Samples

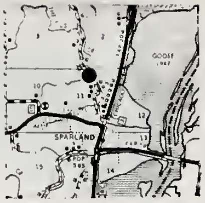
Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.3	3,100	4.3	40	320	4.2	36	5,200
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Marshall T 12N R 9E S 11
Mine Index L002 Opened 1934 Closed 1952
Environmental Locale Early Forest
Mined by Davis Coal Co.
Owner Private
Gob Volume 7,300 Problem Area Index 23



Problem Acreage

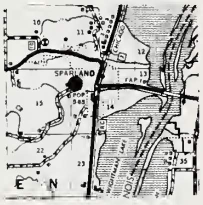
				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.3	0.3					

Description:

A small, partially burned gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 0.75 mile north of Sparland. The severely eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent streams existed at the mine site.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Marshall T 12N R 9E S 14
Mine Index L004 Opened 1939 Closed 1941
Environmental Locale Early Forest
Mined by Babington Brothers
Owner Private
Gob Volume 6,500 Problem Area Index 20



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area near Sparland. The moderately eroded gob pile, utilized as a dump, was 21 to 30 feet in height with a 3 to 15 percent slope. Poor ground cover and moderate overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Marshall T 12N R 9E S 15

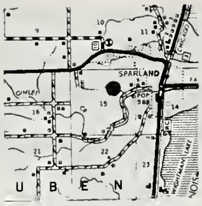
Mine Index L022 Opened 1933 Closed 1942

Environmental Locale Early Forest

Mined by Jury and Wren Coal Co.

Owner Private

Gob Volume 4,800 Problem Area Index 19



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage area was all that remained of this mine located in a forested area approximately 0.5 mile west of Sparland. The moderately eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and light overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Marshall T 12N R 9E S 23

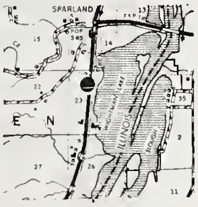
Mine Index L008 Opened 1938 Closed --

Environmental Locale Early Forest

Mined by Liberty Coal Co.

Owner Private

Gob Volume 1,900 Problem Area Index 16



Problem Acreage

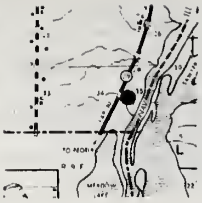
				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area near Sparland. The moderately eroded gob pile averaged 6 feet in height; good ground cover was uniformly distributed along with a few scattered trees. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Marshall T 12N R 9E S 34
Mine Index U024 Opened --- Closed ---
Environmental Locale Early Forest
Mined by Unknown
Owner Private
Gob Volume 4,800 Problem Area Index 19



Problem Acreage

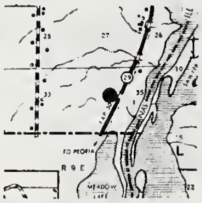
				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 2.5 miles southwest of Sparland. The moderately eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and moderate overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Marshall T 12N R 9E S 34
Mine Index L017 Opened 1936 Closed 1943
Environmental Locale Forest
Mined by Thomas Lopeman Blue Blaze Mine
Owner Private
Gob Volume 7,300 Problem Area Index 49



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.3	0.3					

Description:

A small, partially burned gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 3 miles south of Sparland. The moderately eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover vegetation was restricted to the perimeter of the refuse; a few scattered trees were also present. Continuous drainage was flowing from a mine shaft into an adjacent stream.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Marshall T 13N R 9E S 35

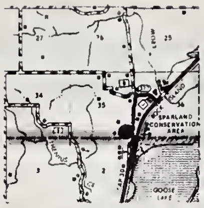
Mine Index L003 Opened 1929 Closed 1940

Environmental Locale Agricultural

Mined by Elmer Lopeman

Owner Private

Gob Volume 2,600 Problem Area Index 19



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area near the Sparland Conservation Area. The top of this small gob pile had been graded and seeded to wheat (Triticum aestivum). Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Marshall T 13N R 9E S 35

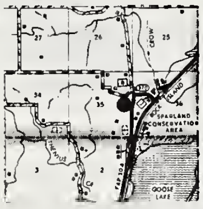
Mine Index U001 Opened 1910 Closed 1929

Environmental Locale Agricultural

Mined by Calwell Coal Co.

Owner Private

Gob Volume 4,800 Problem Area Index 21



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.3	0.3					

Description:

A small, partially burned gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 0.5 mile west of the Sparland Conservation Area. The severely eroded gob pile, less than 25 percent burned, was 10 feet in height with a 3 to 15 percent slope. Poor ground cover and moderate overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Marshall T 29N R 1E S 8

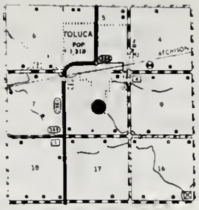
Mine Index U023 Opened 1894 Closed 1908

Environmental Locale Agricultural

Mined by Toluca Coal Co.

Owner Private

Gob Volume 139,000 Problem Area Index 55



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
7.2	7.2					

Description:

This mine, located in an agricultural area near Toluca, consisted of problem acreage associated with a partially burned gob refuse area. The graded gob pile was moderately eroded and 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

County Marshall T 29N R 1E S 8

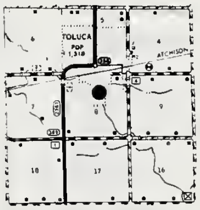
Mine Index U022 Opened 1894 Closed 1908

Environmental Locale Agricultural

Mined by Toluca Coal Co.

Owner Private

Gob Volume 949,000 Problem Area Index 121



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
9.8	9.8					

Description:

This mine, located in an agricultural area near Toluca, consisted of problem acreage associated with an extensively burned gob refuse area. The steeply and severely eroded gob pile was 81 to 90 feet in height. Poor ground cover and moderate overstory vegetation were restricted to its perimeter. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U022

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.8	1,900	0.7	15	30	0.5	0.8	2,400
Burned Gob	6.5	55	Tr	7	0.1	0.1	0.5	49
Slurry								

County Marshall T 29N R 1E S 8

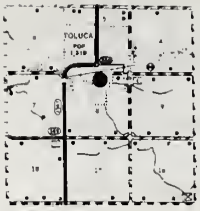
Mine Index U021 Opened 1894 Closed 1924

Environmental Locale Urban-Industrial

Mined by Toluca Coal Co.

Owner Private

Gob Volume 1,700,000 Problem Area Index 162



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
20.1	16.2				2.0	1.9

Description:

This mine, located in an urban-industrial area in Toluca, consisted of problem acreage associated with an extensively burned gob refuse area, an off-site terrestrial area, and an off-site aquatic area. The steeply sloped and severely eroded gob pile, utilized as a dump, was 81 to 90 feet in height. Poor ground cover and light overstory vegetation were restricted to the perimeter. Runoff from the gob had affected adjacent off-site terrestrial and aquatic areas. Continuous drainage flowed from the mine site into an adjacent stream.

County Marshall T 30N R 1E S 24

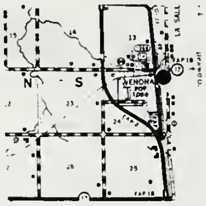
Mine Index U020 Opened --- Closed 1926

Environmental Locale Urban-Residential

Mined by Wenona Coal Co.

Owner City of Wenona

Gob Volume 944,000 Problem Area Index 122



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
9.4	9.0				0.4	

Description:

This mine, located in an urban-residential area in Wenona, consisted of problem acreage associated with an extensively burned gob refuse area and an off-site terrestrial area. The moderately sloped and severely eroded gob pile was 71 to 80 feet in height. The top of the refuse pile had been leveled, and vegetation planted. Good ground cover and moderate overstory vegetation were present on the refuse which was used as a scenic lookout. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

U021

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	8.3	700	0	0.2	0.7	0.0	61
General Runoff							
Below Mine	8.2	850	0	0.2	0.9	0.4	130
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	3.9	30,000	2,900	240	120	330	42,000
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.9	3,000	1.3	13	78	0.6	37	4,600
Burned Gob	5.2	140	0.1	10	0.1	0.3	0.7	79
Slurry								

U020

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	6.4	10,100	22	38	0.4	117	8,700
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.1	3,500	0.6	22	20	0.3	39	4,900
Burned Gob	4.8	1,650	0.2	9	0.5	0.2	13	2,200
Slurry								

County McDonough T 4N R 3W S 33

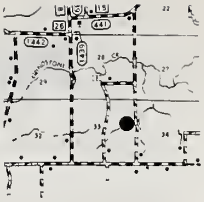
Mine Index U023 Opened -- Closed --

Environmental Locale Early Forest

Mined by Unknown

Owner United Electric Coal Co.

Gob Volume 2,400 Problem Area Index 17



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.3	0.3					

Description:

A small, partially burned gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 7 miles southwest of Industry. The uneroded gob pile averaged 5 feet in height. Sparse ground cover vegetation was restricted to the perimeter along with a few scattered trees. Potential for drainage to adjacent streams was not observed.

County McDonough T 4N R 3W S 33

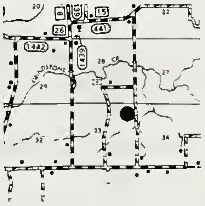
Mine Index U024 Opened -- Closed --

Environmental Locale Early Forest

Mined by Unknown

Owner United Electric Coal Co.

Gob Volume 8,100 Problem Area Index 65



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.5	0.5					

Description:

This mine, located in a forested area approximately 7 miles southwest of Industry, consisted of problem acreage associated with a small gob refuse area. The uneroded gob pile was 10 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Continuous drainage from a hazardous open shaft was flowing into an adjacent stream.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U024

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	3.5	2,000	185	13	5.5	7.9	1,400
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	400	0.3	55	2.2	0.6	0.4	160
Burned Gob								
Slurry								

County McDonough T 4N R 3W S 34

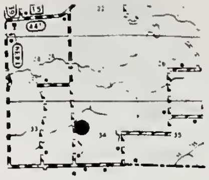
Mine Index L089 Opened 1939 Closed 1951

Environmental Locale Early Forest

Mined by Virgil Breeden

Owner United Electric Coal Co.

Gob Volume None Problem Area Index 29



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.0						

Description:

An open main shaft which constituted a hazard was all that remained at this mine. The site was located in a forested area approximately 8 miles southwest of Industry.

County McDonough T 4N R 3W S 34

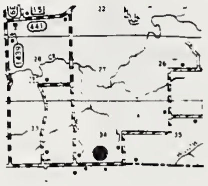
Mine Index L187 Opened 1948 Closed 1949

Environmental Locale Early Forest

Mined by Dewey Frisbee & Kindheart

Owner United Electric Coal Co.

Gob Volume 7,100 Problem Area Index 21



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.4	0.4					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 8 miles southwest of Industry. The moderately eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

L187

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	370	0.3	82	0.4	1.0	0.6	150
Burned Gob								
Slurry								

County McDonough T 5N R 3W S 7

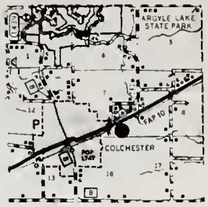
Mine Index U076 Opened -- Closed --

Environmental Locale Agricultural

Mined by Unknown

Owner Private

Gob Volume 9,700 Problem Area Index 24



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.5	0.5					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area near Colchester. The uneroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover vegetation was restricted to the perimeter of the refuse, and a few scattered trees were also present. Potential for drainage to adjacent streams was not observed.

County McDonough T 5N R 3W S 7

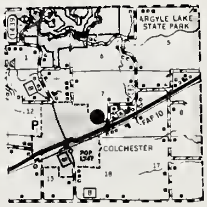
Mine Index U078 Opened -- Closed --

Environmental Locale Urban-Residential

Mined by Colchester Coal Co.

Owner Private

Gob Volume 11,000 Problem Area Index 36



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.7	0.6					0.1

Description:

This mine, located in an urban-residential area in Colchester, consisted of problem acreage associated with a gob refuse area and an off-site aquatic area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Runoff from the gob had affected an adjacent off-site aquatic area, and potential for drainage to adjacent streams existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U078

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	3.1	620	1	0.2	0.4	0.0	600
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County McDonough T 5N R 3W S 7

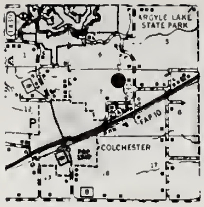
Mine Index U083 Opened -- Closed --

Environmental Locale Early Forest

Mined by C. Wilson

Owner Private

Gob Volume 4,000 Problem Area Index 19



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.5	0.5					

Description:

A small, partially burned gob refuse area with associated problem acreage was all that remained of this mine located in a forested area near Colchester. The moderately eroded gob pile averaged 5 feet in height with a 3 to 15 percent slope. A few scattered trees were present on the refuse area. Potential for drainage to adjacent streams was not observed.

County McDonough T 5N R 3W S 7

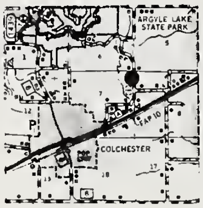
Mine Index U084 Opened --- Closed ---

Environmental Locale Agricultural

Mined by P. F. Whalen

Owner Private

Gob Volume 24,000 Problem Area Index 30



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.0	1.0					

Description:

This mine, located in an agricultural area near Colchester, consisted of problem acreage associated with a gob refuse area. The moderately eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Moderate ground cover and sparse overstory vegetation were scattered over the refuse area. Potential for drainage to adjacent streams was not observed.

U083

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob	6.2	60	0.1	5	0.1	0.3	0.3	54
Slurry								

U084

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.5	320	0.1	7	0.5	0.2	1.0	290
Burned Gob								
Slurry								

County McDonough T 5N R 3W S 8

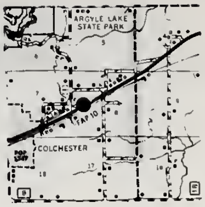
Mine Index U085 Opened --- Closed ---

Environmental Locale Agricultural

Mined by Unknown

Owner Private-Whalen Brothers

Gob Volume 24,000 Problem Area Index 31



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.0	1.0					

Description:

This mine, located in an agricultural area near Colchester, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. A few trees were scattered on the refuse area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County McDonough T 5N R 3W S 8

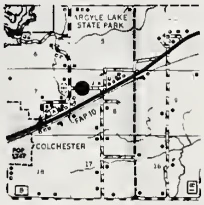
Mine Index U086 Opened --- Closed ---

Environmental Locale Agricultural

Mined by Unknown

Owner Private-Whalen Brothers

Gob Volume 24,000 Problem Area Index 31



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.0	1.0					

Description:

This mine, located in an agricultural area near Colchester, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. A few trees were scattered on the refuse area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County McDonough T 5N R 3W S 18

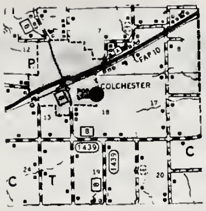
Mine Index U072 Opened -- Closed --

Environmental Locale Urban-Residential

Mined by Unknown

Owner Private

Gob Volume 500 Problem Area Index 23



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an urban-residential area in Colchester. The gob pile had been graded and averaged 1 foot in height. Sparse ground cover vegetation was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County McDonough T 5N R 4W S 13

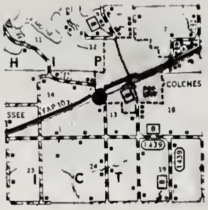
Mine Index U063 Opened --- Closed ---

Environmental Locale Agricultural

Mined by Bekson & Sons

Owner Private

Gob Volume 5,800 Problem Area Index 22



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area near Colchester. The uneroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Moderate ground cover vegetation was restricted to the perimeter of the refuse; a few scattered trees were also present. Potential for drainage to adjacent streams was not observed.

County McDonough T 5N R 4W S 14

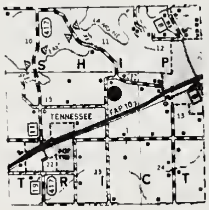
Mine Index U052 Opened -- Closed --

Environmental Locale Agricultural

Mined by Unknown

Owner Private

Gob Volume 8,900 Problem Area Index 24



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.5	0.5					

Description:

A small, partially burned gob pile with associated problem acreage was all that remained of this mine located in an agricultural area approximately 1 mile west of Colchester. The uneroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Sparse ground cover was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

U063

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.6	2,600	1.2	76	64	0.8	7.3	4,000
Burned Gob								
Slurry								

U052

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.2	700	0.3	139	2.2	0.3	1.6	680
Burned Gob								
Slurry								

County McDonough T 5N R 4W S 14

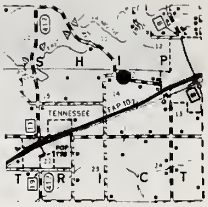
Mine Index U056 Opened 1890 Closed --

Environmental Locale Agricultural

Mined by Quincy Coal Co.

Owner Private

Gob Volume 8,700 Problem Area Index 24



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.5	0.5					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 1 mile west of Colchester. The uneroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Sparse ground cover was restricted to the perimeter. Potential for drainage to adjacent streams was not observed.

County McDonough T 6N R 4W S 36

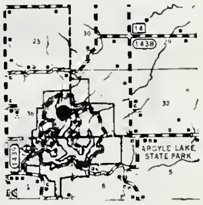
Mine Index L046 Opened 1937 Closed 1940

Environmental Locale Forest

Mined by Nelson Coal Co.

Owner Ill. State Conservation Dept.

Gob Volume 13,000 Problem Area Index 24



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
1.0	1.0					

Description:

This mine, located in a forested area in Argyle Lake State Park, consisted of problem acreage associated with a gob refuse area. The moderately eroded gob pile averaged 8 feet in height with a 3 to 15 percent slope. A few trees were scattered on the refuse area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

NO DRAINAGE OR REFUSE DATA AVAILABLE

County McLean T 23N R 2E S 5

Mine Index U001 Opened 1899 Closed 1929

Environmental Locale Urban-Residential

Mined by McLean County Coal Co.

Owner Penn. Central Railroad

Gob Volume 16,000 Problem Area Index 33

Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
1.0	1.0					

Description:

This mine, located in an urban-residential area in Bloomington, consisted of problem acreage associated with an extensively burned gob refuse area. The uneroded gob pile, part of which had been removed, was 21 to 30 feet in height with a 3 to 15 percent slope. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

County McLean T 24N R 5E S 3

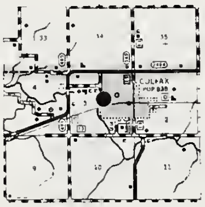
Mine Index U004 Opened --- Closed ---

Environmental Locale Urban-Industrial

Mined by Colfax Cooperative Coal Co.

Owner Private

Gob Volume 26,000 Problem Area Index 28



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
2.0	2.0					

Description:

This mine, located in an urban-industrial area in Colfax, consisted of problem acreage associated with an extensively burned gob refuse area. The moderately eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. A small area of the refuse had been graded. Moderate ground cover and overstory vegetation were uniformly distributed on the refuse. Potential for drainage to adjacent streams existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U004

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	7.7	900	16	0.1	0.4	0.0	400
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob	4.1	750	0.1	17	1.2	0.4	0.9	800
Slurry								

County McLean T 26N R 4E S 1

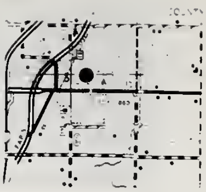
Mine Index U005 Opened -- Closed 1907

Environmental Locale Urban-Residential

Mined by Easterly Coal & Mining Co.

Owner Private

Gob Volume 27,000 Problem Area Index 37



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.5	1.5					

Description:

This mine, located in an urban-residential area in Chenoa, consisted of problem acreage associated with a partially burned gob refuse area. The moderately sloped and severely eroded gob pile was 21 to 30 feet in height. Moderate ground cover and overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

U005

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.1	1,600	2.4	32	170	2.9	22	2,400
Burned Gob								
Slurry								

County Menard T 17N R 6W S 1

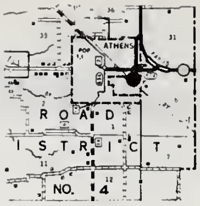
Mine Index U003 Opened --- Closed 1920

Environmental Locale Agricultural

Mined by Athens-Dawson Coal Co.

Owner Private

Gob Volume 2,100 Problem Area Index 20



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
0.9	0.9					

Description:

This mine, located in an agricultural area near Athens, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. A 1.9-acre tipple area on the mine site was not a problem. Potential for drainage to adjacent streams was not observed.

County Menard T 17N R 7W S 6

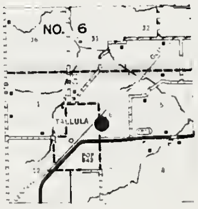
Mine Index U004 Opened --- Closed ---

Environmental Locale Agricultural

Mined by Menard Coal & Mining Co.

Owner Private

Gob Volume 3,900 Problem Area Index 24



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
1.4	0.3				1.1	

Description:

This mine, located in an agricultural area near Tallula, consisted of problem acreage associated with two gob refuse areas and an off-site terrestrial area. The largest partially burned gob pile was steeply sloped, moderately eroded, and 21 to 30 feet in height. Poor ground cover vegetation was scattered on this refuse area. The smaller uneroded gob pile, part of which had been removed, was moderately sloped and 11 to 20 feet in height. Good ground cover vegetation was uniformly distributed on the refuse. A few scattered trees were also present on this gob pile. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

U003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	2,400	0.5	72	20	2.0	2.6	3,400
Burned Gob	3.9	2,200	0.3	13	18	2.7	1.4	3,200
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Menard T 17N R 7W S 23

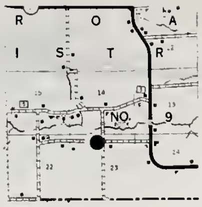
Mine Index L003 Opened 1900 Closed 1959

Environmental Locale Agricultural

Mined by Lloyd Mine c/o Charles Whitehurst

Owner Private

Gob Volume None Problem Area Index 31



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.7					0.7	

Description:

A 0.3-acre gob refuse area at this mine, located in an agricultural area approximately 7 miles south of Petersburg, had been covered and was no longer a problem. However, a small off-site terrestrial area that was previously affected still remained a problem. In addition, an open air shaft at the mine site constituted a hazard. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Menard T 18N R 6W S 36

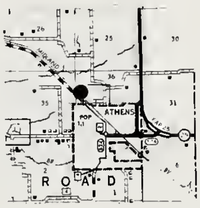
Mine Index U012 Opened --- Closed 1928

Environmental Locale Agricultural

Mined by Union Coal Co.

Owner Private

Gob Volume 9,600 Problem Area Index 26



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
3.0	1.5				1.5	

Description:

This mine, located in an agricultural area near Athens, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The moderately sloped and eroded gob pile, part of which had been removed, was 21 to 30 feet in height. Moderate ground cover and overstory vegetation were scattered on the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Menard T 18N R 7W S 36

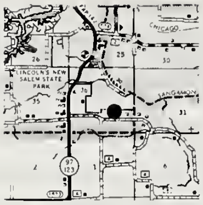
Mine Index L009 Opened 1922 Closed 1945

Environmental Locale Rural-Residential

Mined by Lincoln Mine

Owner Private

Gob Volume 400 Problem Area Index 18



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.5	0.5					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine, located in a rural-residential area approximately 3 miles south of Petersburg. The moderately eroded gob pile averaged less than 1 foot in height. Poor ground cover was scattered on the refuse area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Menard T 18N R 7W S 36

Mine Index L011 Opened 1939 Closed 1966

Environmental Locale Rural-Residential

Mined by New Salem Coal Co.

Owner Private

Gob Volume 15,000 Problem Area Index 29

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.9	0.9					

Description:

This mine, located in a rural-residential area approximately 3 miles south of Petersburg, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height. Sparse ground cover vegetation was scattered on the refuse area. Potential for drainage to adjacent streams was not observed.

County Menard T 19N R 6W S 36

Mine Index U001 Opened 1925 Closed 1955

Environmental Locale Agricultural

Mined by Greenview Mining Co.

Owner Private

Gob Volume 2,000 Problem Area Index 19

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.6	0.6					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 1 mile south of Greenview. The steeply sloped and severely eroded gob pile was 11 to 20 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

L011

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.4	5,000	8.1	64	330	420	15	6,800
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Mercer T 14N R 1W S 26

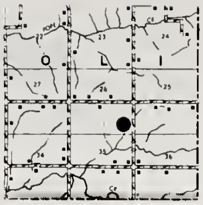
Mine Index L063 Opened 1957 Closed 1973

Environmental Locale Agricultural

Mined by Hazeldell Coal Corp.

Owner Private

Gob Volume 13,000 Problem Area Index 36



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
7.0	2.0		4.0	1.0		

Description:

This mine, located in an agricultural area approximately 2 miles southwest of New Windsor, consisted of problem acreage associated with a partially burned gob refuse area, a tipple area, and an on-site water impoundment. The severely eroded gob pile averaged 4 feet in height. Part of this barren gob pile had been removed, and the refuse area was being used as a coal storage area. Machinery, buildings, and a 0.2-mile gob road remained on the sparsely vegetated tipple area. Runoff from the gob had affected the tipple area and an on-site water impoundment; potential for drainage to adjacent streams existed at the mine.

County Mercer T 14N R 2W S 4

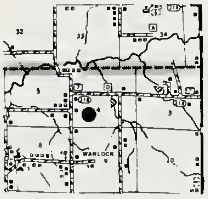
Mine Index U070 Opened 1890 Closed ---

Environmental Locale Agricultural

Mined by Empire Coal Co.

Owner Private

Gob Volume 13,000 Problem Area Index 29



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.0	1.0					

Description:

This mine, located in an agricultural area approximately 1.5 miles southwest of Matherville, consisted of problem acreage associated with a partially burned gob refuse area. The severely eroded gob pile, utilized as a dump, was less than 10 feet in height with a 3 to 15 percent slope. Moderate ground cover and sparse overstory vegetation were scattered on the refuse area. Potential for drainage to adjacent streams existed at the mine.

L063

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.8	820	14	0.7	8.0	0.7	210
General Runoff							
Below Mine	6.6	1,250	29	2.5	10	8.3	800
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	9.1	400	0	1.0	3.8	0.0	150
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.9	2,800	0.8	163	1.6	14	1.2	3,600
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Mercer T 14N R 2W S 9

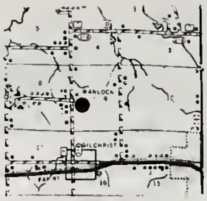
Mine Index U089 Opened 1894 Closed 1905

Environmental Locale Agricultural

Mined by Alden Coal Co.

Owner Private

Gob Volume 16,000 Problem Area Index 30



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
2.0	2.0					

Description:

This mine, located in an agricultural area approximately 2 miles northwest of Viola, consisted of problem acreage associated with an extensively burned gob refuse area. The moderately eroded gob pile, utilized as a dump, was 11 to 20 feet in height with a 3 to 15 percent slope. Good ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Mercer T 15N R 1W S 4

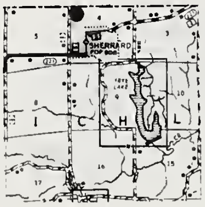
Mine Index U040 Opened --- Closed 1918

Environmental Locale Agricultural

Mined by Coal Valley Mining Co.

Owner Private

Gob Volume 194,000 Problem Area Index 61



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
10.0	10.0					

Description:

This mine, located in an agricultural area near Sherrard, consisted of problem acreage associated with a partially burned gob refuse area. The moderately eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Good ground cover and heavy overstory vegetation were uniformly distributed on the refuse. Potential for drainage to adjacent streams was not observed.

U089

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob	3.7	2,300	0.3	2	15	3.0	0.6	3,400
Slurry								

U040

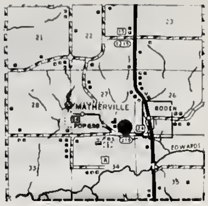
Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.3	2,200	0.1	157	0.6	1.4	4.1	3,300
Burned Gob								
Slurry								

County Mercer T 15N R 2W S 27
Mine Index U030 Opened 1910 Closed 1921
Environmental Locale Agricultural
Mined by Coal Valley Mining Co.
Owner Private
Gob Volume 21,000 Problem Area Index 30



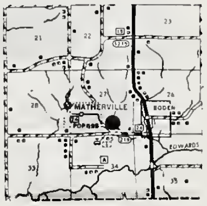
Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
4.4	4.4					

Description:

This mine, located in an agricultural area near Matherville, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile averaged 3 feet in height. Good ground cover vegetation and a few scattered trees were present on the refuse area. Potential for drainage to adjacent streams was not observed.

County Mercer T 15N R 2W S 27
Mine Index U025 Opened 1910 Closed 1925
Environmental Locale Agricultural
Mined by Alden Coal Co.
Owner Private
Gob Volume 26,000 Problem Area Index 60



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
3.2	1.6		1.6			

Description:

This mine, located in an agricultural area near Matherville, consisted of problem acreage associated with a gob refuse area and a tipple area. The uneroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Good ground cover and heavy overstory vegetation were uniformly distributed on the refuse area. Machinery, buildings, and a 0.2-mile gob road remained on the sparsely vegetated tipple area. Continuous drainage was flowing from a shaft into an adjacent stream.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U025

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	6.9	2,100	44	5.1	16	0.0	510
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Montgomerv T 7N R 3W S 3

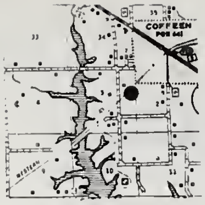
Mine Index U015 Opened -- Closed 1925

Environmental Locale Herbs-Shrubs-Trees

Mined by Cloverleaf Coal Co.

Owner Private

Gob Volume 600 Problem Area Index 13



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.2	0.2					

Description:

This mine, located near Coffeen, consisted of problem acreage associated with a gob refuse area. The small gob pile averaged 2 feet in height and supported a moderate vegetation cover. A 0.3-acre tipple area and a 2.8-acre unpolluted water impoundment were also present on the mine site. Potential for drainage to adjacent streams was not observed.

County Montgomery T 7N R 4W S 22

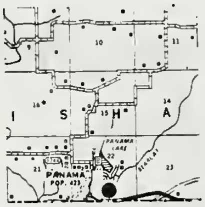
Mine Index U007 Opened 1905 Closed 1932

Environmental Locale Agricultural

Mined by Cosgrove-Meehan Coal Co.

Owner Private

Gob Volume 103,000 Problem Area Index 57



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
6.4	6.4					

Description:

This mine, located in an agricultural area near Panama, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. A 0.3-acre tipple area with good vegetative cover was not a problem. Drainage from the gob refuse into an adjacent stream was observed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.6	810	285	0.2	0.1	0.0	120
General Runoff							
Below Mine	6.5	910	660	0.3	40	0.9	280
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	1.8	10,000	25	206	900	2,200	7.5	14,000
Burned Gob	7.0	2,400	Tr	15	0.1	0.6	6.3	3,200
Slurry								

County Montgomery T 8N R 3W S 35

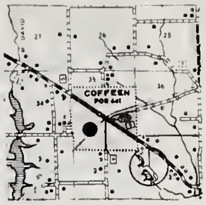
Mine Index U011 Opened 1906 Closed 1923

Environmental Locale Early Forest

Mined by Cloverleaf Coal Co.

Owner Private

Gob Volume 6,800 Problem Area Index 40



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
6.1	1.4				4.7	

Description:

This mine, located in a forested area near Coffeen, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The moderately sloped and eroded gob pile was 11 to 20 feet in height. Moderate ground cover and overstory vegetation were uniformly distributed on the refuse. The main shaft of the mine was open and constituted a hazard. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County Montgomery T 8N R 4W S 12

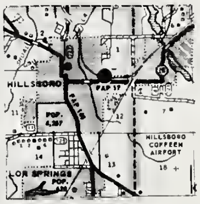
Mine Index S001 Opened 1887 Closed 1942

Environmental Locale Urban-Residential

Mined by Hillsboro Mining Co.

Owner Private

Gob Volume 2,700 Problem Area Index 33



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
6.4	5.5			0.9		

Description:

This mine, located in an urban-residential area in Hillsboro, consisted of problem acreage associated with a partially burned gob refuse area and an on-site water impoundment. The steeply sloped and severely eroded gob pile, utilized as a dump, had been graded and averaged 3 feet in height. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Runoff from the gob had affected an on-site water impoundment. Drainage from the gob into an adjacent stream was observed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

S001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.9	1,030	75	0.0	0.6	0.0	1,900
General Runoff	3.3	780	140	1.4	3.3	0.0	260
Below Mine	6.6	1,220	275	0.5	9.0	0.3	110
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	6.9	2,100	190	1.1	1.0	0.0	250
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	2,300	1.3	202	20	10	0.5	2,000
Burned Gob								
Slurry								

County Montgomery T 8N R 4W S 23

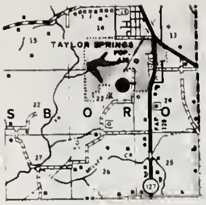
Mine Index U009 Opened -- Closed 1926

Environmental Locale Urban-Industrial

Mined by Indiana & Illinois Coal Co.

Owner Private

Gob Volume None Problem Area Index 23



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.0						

Description:

The only physical remains of this mine, located in an urban-industrial area near Taylor Springs, was a 0.9-acre tipple area which was not a problem. An unsealed main shaft at the mine site constituted a hazard. Potential for drainage to adjacent streams was not observed.

County Montgomery T 9N R 2W S 6

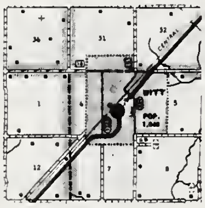
Mine Index U002 Opened 1903 Closed 1922

Environmental Locale Urban-Residential

Mined by Indiana & Illinois Coal Corp.

Owner Private

Gob Volume 100 Problem Area Index 21



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.3	0.1		0.2			

Description:

This mine, located in an urban-residential area in Witt, consisted of problem acreage associated with a gob refuse area and a tipple area. The moderately eroded gob pile averaged less than 1 foot in height. Poor ground cover was restricted to the perimeter of the refuse. Buildings and foundations remained on the tipple area which supported a good vegetative cover. A 5.0-acre unpolluted water impoundment also remained at the mine. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Montgomery T 10N R 2W S 27

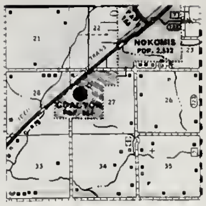
Mine Index S003 Opened 1913 Closed 1954

Environmental Locale Urban-Residential

Mined by Nokomis Coal Co.

Owner Nokomis Chamber of Commerce

Gob Volume N.A. Problem Area Index N.A.



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
NOT APPLICABLE						

Description:

This mine, located in an urban-residential area near Coalton, consisted of problem acreage associated with two gob refuse areas. The largest gob pile, which had been graded, was severely eroded and averaged 3 feet in height with a 3 to 15 percent slope. Poor ground cover and moderate overstory vegetation were scattered on the refuse. The smaller gob pile was similar to the first. Drainage from the refuse areas into an adjacent ditch was observed. Subsequent to the field survey, this site was effectively reclaimed as part of the Illinois Abandoned Mined Lands Reclamation Project No. 76-03. Consequently, information obtained during this survey is no longer applicable.

County Montgomery T 12N R 5W S 34

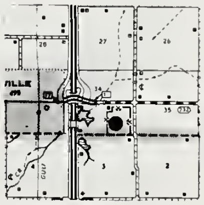
Mine Index S004 Opened 1951 Closed 1970

Environmental Locale Agricultural

Mined by Freeman Coal Mining Corp.

Owner Freeman Coal Mining Corp.

Gob Volume 1,530,000 Problem Area Index 207



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
69.3	63.2			6.1		

Description:

This mine, located in an agricultural area near Farmersville, consisted of problem acreage associated with a gob refuse area and an on-site water impoundment. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height and barren of vegetation, except for a 0.83-acre direct liming and seeding experimental plot established in September 1973 by the Illinois Department of Mines and Minerals Division of Land Reclamation. Drainage from the refuse was contained on-site and directed toward an impoundment where it was neutralized prior to release into an adjacent stream. Two other water impoundments on the mine site were not affected. A 51.0-acre tipple area on the site was being utilized as a machine repair shop by Freeman Coal Mining Corporation.

S003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.8	1,050	7	0.2	0.7	0.0	72
General Runoff	2.7	3,500	810	47	240	18	1,600
Below Mine #1	6.5	2,200	60	2.8	110	11	950
#2	5.8	1,460	60	0.7	0.8	4.1	670
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	3.2	780	0.5	152	3.7	5.3	0.4	420
#2	2.8	3,300	1.9	173	82	56	3.3	4,600
Slurry								

S004

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.1	19,900	12,900	660	1,900	0.0	4,500
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments #1	8.8	350	0.0	0.2	0.8	0.0	220
#2	6.7	3,600	305	0.1	0.7	0.0	1,800
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	1.9	10,000	37	133	940	910	12	19,600
Burned Gob								
Slurry								

County Morgan T 13N R 10W S 30

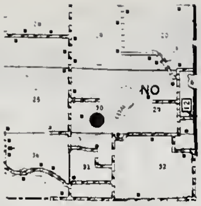
Mine Index L001 Opened 1934 Closed 1939

Environmental Locale Strip Mine-inactive

Mined by Wagstaff & Smith

Owner Private

Gob Volume 3,500 Problem Area Index 10



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in the vicinity of an inactive strip mine approximately 2.5 miles south of Murrayville. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Peoria T 7N R 6E S 12

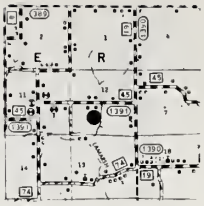
Mine Index L129 Opened 1946 Closed 1955

Environmental Locale Agricultural

Mined by Beechum Bros. Coal Co.

Owner Private

Gob Volume 1,800 Problem Area Index 63



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
0.2	0.1			0.1		

Description:

This mine, located in an agricultural area approximately 3 miles northeast of Glasford, consisted of problem acreage associated with a gob refuse area and a water impoundment. The uneroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. Continuous drainage from the gob had affected an on-site water impoundment, and potential for drainage to adjacent streams existed.

County Peoria T 7N R 6E S 26

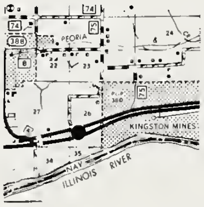
Mine Index L006 Opened 1923 Closed 1962

Environmental Locale Agricultural

Mined by O.W. Lightbody Coal Co.

Owner Private

Gob Volume 21,000 Problem Area Index 31



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
3.2	1.1		2.1			

Description:

This mine, located in an agricultural area near Kingston Mines, consisted of problem acreage associated with a partially burned gob refuse area and a tipple area. The moderately eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. A portion of the refuse area had been graded, and some gob had been removed. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. Buildings, machinery, and a 0.1-mile gob road remained on the tipple area. An open air shaft on the tipple area constituted a hazard. Potential for drainage to adjacent streams was not observed.

L129

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings	7.4	1,000	3.1	0.0	0.8	0.4	610
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

L006

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.6	2,400	0.4	116	12	1.6	3.2	4,000
Burned Gob								
Slurry								

County Peoria T 7N R 7E S 8

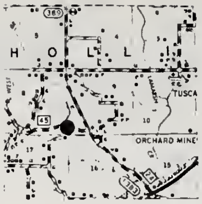
Mine Index S001 Opened 1887 Closed 1957

Environmental Locale Early Forest

Mined by Crescent Coal Co.

Owner Peabody Coal Co.

Gob Volume 971,000 Problem Area Index 140



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
6.0	6.0					

Description:

This mine, located in a forested area approximately 3 miles west of Tuscarora, consisted of problem acreage associated with a gob refuse area. The steeply sloped and moderately eroded gob pile was 81 to 90 feet in height. Excellent ground cover vegetation was uniformly distributed on the refuse. Moderate overstory vegetation was restricted to the perimeter of the refuse. Drainage was flowing from the mine site into an adjacent stream.

County Peoria T 7N R 7E S 8

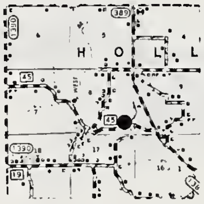
Mine Index U021 Opened 1901 Closed 1925

Environmental Locale Early Forest

Mined by Crescent Coal Co.

Owner Peabody Coal Co.

Gob Volume 60,000 Problem Area Index 41



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.5	2.5					

Description:

This mine, located in a forested area approximately 4 miles southwest of Bartonville, consisted of problem acreage associated with an extensively burned gob refuse area. The uneroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Part of the gob had been removed. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. Drainage was observed flowing from the gob refuse area into an adjacent stream.

S001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	8.2	1,050	0	0.1	0.7	0.0	710
General Runoff							
Below Mine	8.2	1,200	0	0.2	0.7	0.4	690
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	7.4	2,400	24	0.1	10	0.4	1,300
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	6.2	2,400	0.1	50	0.1	0.4	7.0	3,800
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Peoria T 7N R 7E S 20

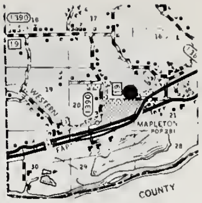
Mine Index U026 Opened --- Closed 1932

Environmental Locale Early Forest

Mined by Haynes Mine

Owner Private

Gob Volume 1,300 Problem Area Index 19



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.1	0.1					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area near Mapleton. The uneroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Moderate ground cover vegetation was scattered on the refuse area; overstory vegetation was uniformly distributed on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Peoria T 8N R 7E S 23

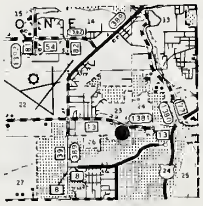
Mine Index L001 Opened 1918 Closed 1952

Environmental Locale Early Forest

Mined by Edward Mohr & Sons, Inc.

Owner Private

Gob Volume 35,000 Problem Area Index 32



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
4.3	4.3					

Description:

This mine, located in a forested area near Bartonville, consisted of problem acreage associated with a partially burned gob refuse area. The uneroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Good ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

U026

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	6.8	2,000	0.1	46	0.1	0.1	7.4	3,100
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Peoria T 9N R 5E S 17

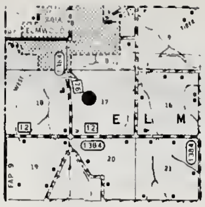
Mine Index U027 Opened 1890 Closed 1906

Environmental Locale Agricultural

Mined by Elmwood Coal Co.

Owner 1st Galesburg Bank

Gob Volume 181,000 Problem Area Index 58



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
3.0	3.0					

Description:

This mine, located in an agricultural area approximately 0.5 mile south of Elmwood, consisted of problem acreage associated with an extensively burned gob refuse area. The moderately sloped and severely eroded gob pile was 71 to 80 feet in height. Approximately 50 percent of the gob had been removed. Poor ground cover and sparse overstory vegetation were present on the refuse. Potential for drainage to adjacent streams was not observed.

County Peoria T 9N R 6E S 15

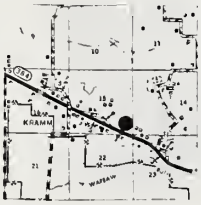
Mine Index L068 Opened 1939 Closed 1953

Environmental Locale Early Forest

Mined by Hoffman Coal Co.

Owner Peabody Coal Co.

Gob Volume 14,000 Problem Area Index 27



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
1.7	1.7					

Description:

This mine, located in a forested area approximately 8 miles west of Peoria, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile, utilized as a dump, was 11 to 20 feet in height and gently sloped. Good ground cover vegetation was uniformly distributed on the refuse. A few scattered trees were also present. Potential for drainage to adjacent streams was not observed.

U027

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob	4.9	2,600	0.1	6	0.4	1.0	7.0	4,400
Slurry								

L068

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	8.2	910	0	0.2	0.6	0.0	950
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	7.5	2,000	Tr	266	0.1	0.6	6.2	3,100
Burned Gob								
Slurry								

County Peoria T 9N R 6E S 15

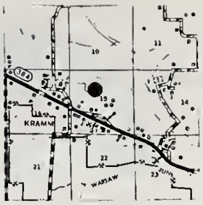
Mine Index L065 Opened 1928 Closed 1951

Environmental Locale Early Forest

Mined by Maple Ridge Coal Co.

Owner Private

Gob Volume 7,100 Problem Area Index 24



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.2	2.2					

Description:

This mine, located in a forested area approximately 8 miles west of Peoria, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile averaged 2 feet in height and supported excellent ground cover vegetation which was uniformly distributed. Sparse overstory vegetation was restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was observed.

County Peoria T 9N R 6E S 24

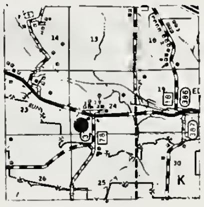
Mine Index S004 Opened 1906 Closed 1951

Environmental Locale Early Forest

Mined by Central West Banner Black Warsau

Owner Private

Gob Volume 11,000 Problem Area Index 66



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.2	2.2					

Description:

This mine, located in a forested area approximately 6 miles west of Peoria, consisted of problem acreage associated with a partially burned gob refuse area. The uneroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Good ground cover and moderate overstory vegetation were uniformly distributed on the refuse. The main shaft of the mine was open and constituted a hazard. Continuous drainage was flowing from the mine area into an adjacent stream.

NO DRAINAGE OR REFUSE DATA AVAILABLE

S004

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings	6.5	6,000	240	1.3	22	5.7	5,100
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Peoria T 9N R 7E S 22

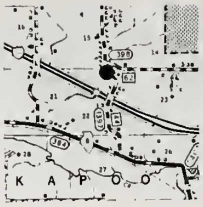
Mine Index L010 Opened 1933 Closed 1944

Environmental Locale Early Forest

Mined by Lucky Strike Coal Mine Co., Inc.

Owner Private

Gob Volume 17,000 Problem Area Index 26



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
2.1	2.1					

Description:

This mine, located in a forested area approximately 2 miles west of Peoria, consisted of problem acreage associated with a partially burned gob refuse area. The uneroded gob pile was 11 to 20 feet high with a 3 to 15 percent slope. Good ground cover and moderate overstory vegetation were uniformly distributed on the refuse. Potential for drainage to adjacent streams was not observed.

County Peoria T 9N R 7E S 27

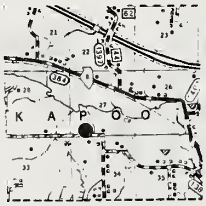
Mine Index L033 Opened 1934 Closed 1956

Environmental Locale Agricultural

Mined by Superior Mining Co.

Owner Private

Gob Volume 24,000 Problem Area Index 59



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
3.0	3.0					

Description:

This mine, located in an agricultural area approximately 1 mile north of Norwood, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile averaged 5 feet in height and supported uniformly distributed, moderate ground cover and overstory vegetation. Continuous drainage was flowing from a shaft into an adjacent stream.

NO DRAINAGE OR REFUSE DATA AVAILABLE

L033

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	6.8	1,850	95	2.8	6.5	1.2	800
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	5.6	2,300	0.1	73	0.1	0.4	5.5	3,800
Burned Gob								
Slurry								

County Peoria T 9N R 7E S 33

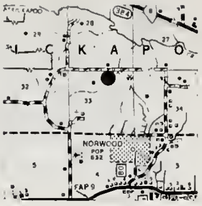
Mine Index L032 Opened 1930 Closed 1970

Environmental Locale Forest

Mined by Big Bear Coal Co.

Owner Private

Gob Volume None Problem Area Index 29



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
6.0			6.0			

Description:

This mine, located in a forested area aporoximately 1 mile north of Norwood, consisted of problem acreage associated with a tipple area. Buildings, machinery, and a 0.3-mile gob road remained on the moderately vegetated tipple area. One of the buildings was inhabited and the tipple area was being used as a dump and a chicken yard. The main shaft of the mine was open and constituted a hazard.

County Peoria T 9N R 7E S 34

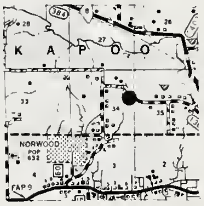
Mine Index L008 Opened 1921 Closed 1949

Environmental Locale Forest

Mined by Vicary Brothers Coal Mine

Owner Private

Gob Volume 3,200 Problem Area Index 20



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
2.1	2.1					

Description:

This mine, located in a forested area near Norwood, consisted of problem acreage associated with a gob refuse area. The moderately eroded gob pile, partially covered and utilized as a dump, averaged 1 foot in height. Sparse ground cover was scattered on the refuse. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

L008

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.7	2,400	0.4	54	15	3.0	18	4,100
Burned Gob								
Slurry								

County Peoria T 9N R 7E S 34

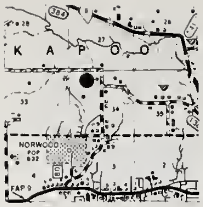
Mine Index L125 Opened 1942 Closed 1957

Environmental Locale Early Forest

Mined by Collins Bros. Coal Co.

Owner Private

Gob Volume None Problem Area Index 15



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.1			2.1			

Description:

This mine, located in a forested area near Norwood, consisted of problem acreage associated with a tipple area. Buildings, machinery, and a 0.1-mile gob road remained on the tipple area which supported an excellent vegetative cover. Potential for a small amount of drainage from the gob road to an adjacent stream existed at the mine.

County Peoria T 10N R 6E S 26

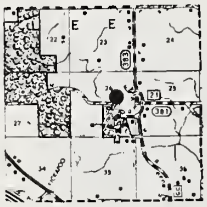
Mine Index L117 Opened 1890 Closed 1946

Environmental Locale Early Forest

Mined by Jubilee Coal Co.

Owner Private

Gob Volume 600 Problem Area Index 18



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 7 miles southwest of Dunlap. The uneroded gob pile averaged 3 feet in height and supported a good vegetative cover. Potential for drainage to adjacent streams existed at the mine.

L125

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	3,000	1.3	213	15	20	2.0	4,200
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Perry T 4S R 1W S 29

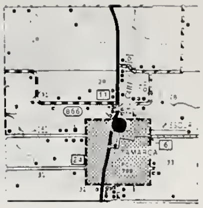
Mine Index S010 Opened 1901 Closed 1942

Environmental Locale Urban-Residential

Mined by Little Muddy Coal Co.

Owner Private

Gob Volume 4,000 Problem Area Index 30



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.7	0.5		0.7		0.5	

Description:

This mine, located in an urban-residential area in Tamaroa, consisted of problem acreage associated with a partially burned gob refuse area, a tipple area, and an off-site terrestrial area. The steeply sloped and moderately eroded gob pile was 21 to 30 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Buildings remained on the tipple area which supported a good vegetative cover. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County Perry T 5S R 1W S 20

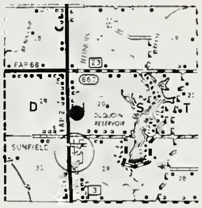
Mine Index U032 Opened --- Closed 1919

Environmental Locale Early invaders

Mined by Bailey Bros. Coal Co.

Owner Private

Gob Volume 800 Problem Area Index 15



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
10.0	1.0	6.0			3.0	

Description:

This mine, located approximately 3 miles north of Du Quoin, consisted of problem acreage associated with a gob refuse area, a slurry refuse area, and an off-site terrestrial area. The uneroded gob pile averaged less than 1 foot in height. Sparse ground cover and overstory vegetation were scattered on the refuse. Surface water was present on the sparsely vegetated slurry area. Runoff from the gob and slurry refuse had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

S010

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.4	2,500	0.3	46	15	0.1	27	4,200
Burned Gob	3.5	4,000	5.4	8	380	0.6	71	8,200
Slurry								

S032

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.6	240	29	0.2	2.4	0.0	48
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.5	1,400	0.7	98	14	1.6	3.5	1,800
Burned Gob								
Slurry	3.4	570	0.4	237	3.8	1.4	1.2	330

County Perry T 5S R 1W S 30

Mine Index S001 Opened 1903 Closed 1943

Environmental Locale Rural-Residential

Mined by Bailey Bros. Coal Co.

Owner Private

Gob Volume 4,200 Problem Area Index 31

Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
2.5	1.3				1.2	

Description:

This mine, located in a rural-residential area approximately 3 miles north of DuQuoin, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The steeply sloped and moderately eroded gob pile was 11 to 20 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Perry T 5S R 1W S 32

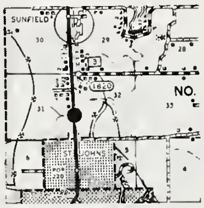
Mine Index U035 Opened --- Closed 1922

Environmental Locale Early Forest

Mined by Kanawa Fuel Co.

Owner Private

Gob Volume 32,000 Problem Area Index 35



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
2.8	2.0				0.8	

Description:

This mine, located in a forested area approximately 2 miles north of Du Quoin, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The steeply sloped and moderately eroded gob pile was 21 to 30 feet in height. Sparse ground cover vegetation was scattered on the gob, and sparse overstory vegetation was restricted to the lower slope of the refuse pile. Runoff from the gob had affected an adjacent off-site terrestrial area. A 0.5-acre tipple area with good vegetative cover was present at the mine. Potential for drainage to adjacent streams was not observed.

S001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.4	550	90	11.0	3.1	0.8	210
Below Mine	6.5	740	22	0.2	1.1	0.5	130
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	6,000	19	13	1,600	12	78	15,500
Burned Gob								
Slurry								

U035

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.1	1,090	240	35.0	2.6	3.8	580
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial	3.4	670	120	13.0	1.8	2.4	220

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	2,500	2.6	38	160	1.3	10	3,800
Burned Gob	5.1	920	0.2	6	4.9	0.1	1.4	1,200
Slurry								

County Perry T 5S R 3W S 13

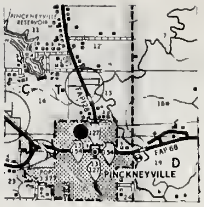
Mine Index S003 Opened 1853 Closed 1939

Environmental Locale Urban-Residential

Mined by H.E. Presswood Coal Co.

Owner Private

Gob Volume 200 Problem Area Index 23



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
0.9	0.9					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an urban-residential area in Pinckneyville. The uneroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Sparse ground cover was scattered on the refuse. Potential for drainage to adjacent streams was not observed.

County Perry T 6S R 1W S 5

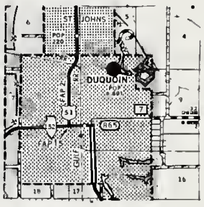
Mine Index L031 Opened 1941 Closed 1962

Environmental Locale Forest

Mined by Du Quoin Coal Co.

Owner Private

Gob Volume 100 Problem Area Index 17



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
0.5	0.4				0.1	

Description:

This mine, located in a forested area in Du Quoin, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The steeply sloped and moderately eroded gob pile was 11 to 20 feet in height and barren of vegetation. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

S003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.5	2,900	1.4	270	80	3.6	13	4,700
Burned Gob								
Slurry								

L031

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.0	1,660	440	36.0	7.7	5.5	890
Below Mine	7.7	1,360	23	0.4	1.5	0.0	220
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,800	1.6	67	100	1.8	16	4,800
Burned Gob								
Slurry								

County Perry T 6S R 1W S 6

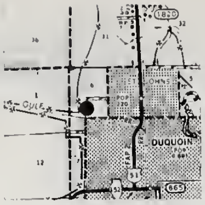
Mine Index U063 Opened --- Closed 1912

Environmental Locale Early Forest

Mined by Superior Mine

Owner Truax-Traer Coal Co.

Gob Volume 2,600 Problem Area Index 18



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.8	0.8					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area near Du Quoin. The uneroded gob pile averaged 2 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

County Perry T 6S R 1W S 8

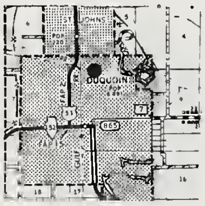
Mine Index U076 Opened --- Closed 1909

Environmental Locale Urban-Residential

Mined by Orion Coal Co.

Owner Private

Gob Volume 200 Problem Area Index 26



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
7.0	1.3		5.7			

Description:

This mine, located in an urban-residential area in Du Quoin, consisted of problem acreage associated with a gob refuse area and a tipple area. The gob refuse area had been graded and averaged less than 1 foot in height. Moderate ground cover vegetation was scattered on the refuse area. Foundations and a 0.2-mile gob road remained on the tipple area, which was utilized as a dump and supported a good vegetative cover. Drainage to an adjacent stream was observed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U076

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.3	780	95	12.0	5.4	1.5	320
Below Mine	7.3	1,120	22	0.2	2.1	0.0	130
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	7.6	580	Tr	111	0.5	0.1	0.7	590
Burned Gob								
Slurry								

County Perry T 6S R 1W S 19

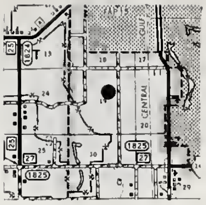
Mine Index U103 Opened --- Closed 1915

Environmental Locale Agricultural

Mined by Brilliant Coal Co.

Owner Private

Gob Volume 28,000 Problem Area Index 43



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
9.8	5.8				4.0	

Description:

This mine, located in an agricultural area near Du Quoin, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The severely eroded gob pile averaged 3 feet in height. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Perry T 6S R 1W S 23

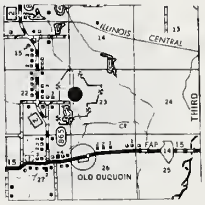
Mine Index S006 Opened 1904 Closed 1954

Environmental Locale Agricultural

Mined by Peabody Coal Co.

Owner Peabody Coal Co.

Gob Volume 1,160,000 Problem Area Index 337



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
204.1	47.8	36.9	15.8	20.6	73.0	10.0

Description:

This mine, located in an agricultural area approximately 2 miles southeast of DuQuoin, consisted of problem acreage associated with a partially burned gob refuse area, two slurry refuse areas, a tipple area, three water impoundments, an off-site terrestrial area, and an off-site aquatic area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height. Sparse ground cover was scattered on the refuse. The largest slurry area, barren of vegetation, was severely eroded and held surface water. Some of the slurry had been removed by a carbon recovery operation. The smaller slurry area supported poor vegetation on its perimeter. Runoff from the gob and slurry refuse had affected three on-site water impoundments, an off-site terrestrial area, and an off-site aquatic area. Potential for drainage to adjacent streams existed at the mine.

U103

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.8	2,900	340	32.0	2.9	1.1	1,300
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial	3.5	1,460	100	3.7	3.8	3.3	770

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.6	1,400	0.3	54	5.2	0.9	4	1,800
Burned Gob	4.0	300	0.1	31	2.7	0.3	1.1	240
Slurry								

S006

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.8	1,330	245	26	17	0.6	520
Below Mine							
Gob Pools							
Slurry Pools	7.2	1,750	15	0.1	0.6	0.0	890
Flooded Openings							
On-site Impoundments #1	7.7	870	7	0.2	0.4	0.2	210
#2	7.4	530	12	0.2	0.2	0.0	55
#3	7.0	880	26	0.3	7.5	3.3	210
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.1	1,900	0.8	73	31	0.9	4.8	2,300
Burned Gob	5.8	1,150	Tr	23	0.2	Tr	2.4	1,600
Slurry #1	3.1	2,600	0.5	289	1.0	3.2	9.4	3,600
#2	3.4	750	0.3	82	8.2	0.2	1.4	700

County Perry T 6S R 2W S 2

Mine Index U051 Opened --- Closed 1901

Environmental Locale Forest

Mined by Great Central Coal Co.

Owner Private

Gob Volume 2,900 Problem Area Index 18

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.6	0.6					

Description:

A partially burned gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 2 miles northwest of Du Quoin. The steeply sloped and moderately eroded gob pile was 11 to 20 feet in height. Sparse ground cover and light overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams was not observed.

County Perry T 6S R 2W S 36

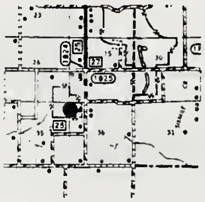
Mine Index S032 Opened 1946 Closed 1958

Environmental Locale Agricultural

Mined by Truax-Traer Coal Co.

Owner Private

Gob Volume 3,000 Problem Area Index 39



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
14.1	7.5	6.6				

Description:

This mine, located in an agricultural area approximately 3 miles southwest of DuQuoin, was the site of an experimental research program conducted by Truax-Traer Coal Company. The research program consisted of experimental vegetation plots on the seven slurry areas, as well as reclamation of exposed gob refuse by covering the refuse with soil and planting to grasses. Problem acreage at the mine was associated with a gob refuse area and two slurry areas. A 7.5-acre area of gob refuse had not been covered, and drainage from two of the seven slurry areas to an adjacent stream was possible. Drainage into the stream was observed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

S032

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.9	3,100	640	30	38	6.2	1,200
Below Mine	2.9	2,900	940	48	79	7.9	1,300
Gob Pools							
Slurry Pools	2.4	2,900	860	98	29	13	1,400
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.4	310	22	0.2	0.5	0.0	310
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type		pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	#1	3.0	3,000	2.6	23	150	8.4	8.8	4,700
	#2	7.0	140	Tr	0	0.5	0.3	1.3	69
Slurry	#1	2.9	2,900	1.4	543	57	6.0	1.7	4,100
	#2	3.0	2,000	1.2	239	42	7.8	5.0	2,700
	#3	4.8	2,400	0.1	265	0.2	0.3	1.9	4,000
	#4	3.2	1,800	0.6	24	16	2.4	6.6	2,300
	#5	7.6	1,250	Tr	11	Tr	1.0	1.4	1,700
	#6	4.4	3,400	0.2	238	0.7	0.3	1.4	5,200
	#7	7.4	2,200	Tr	125	0.1	0.4	0.3	3,400

County Perry T 6S R 3W S 2

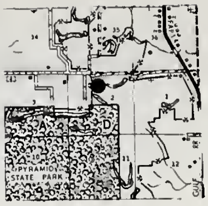
Mine Index U049 Opened --- Closed ---

Environmental Locale Strip Mine-inactive

Mined by Unknown

Owner Truax-Traer Coal Co.

Gob Volume 1,800 Problem Area Index 16



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
15.1	14.0					1.1

Description:

This mine, located in the vicinity of an inactive strip mine approximately 2 miles south of Pinckneyville, consisted of problem acreage associated with a gob refuse area and an off-site aquatic area. The gob refuse area had at one time been utilized as the Pinckneyville city dump. The gob was graded and spread thinly over a 14.0-acre area. Moderate ground cover vegetation was uniformly distributed on the area along with a few scattered trees. Runoff from the gob had affected an off-site aquatic area. Potential for drainage to adjacent streams was not observed.

U049

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq $H^+/100g$	Pot. Acidity meq $H^+/100g$	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.5	5,500	11	118	320	650	7.8	8,800
Burned Gob								
Slurry								

County Putnam T 32N R 1W S 8

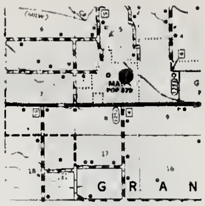
Mine Index S001 Opened 1905 Closed 1935

Environmental Locale Urban-Residential

Mined by Prairie State Coal Co.

Owner Private

Gob Volume 2,364,000 Problem Area Index 334



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
39.3	37.3		2.0			

Description:

This mine, located in an urban-residential area in Mark, consisted of problem acreage associated with four gob refuse areas and a tipple area. Three of the gob piles were steeply sloped, severely eroded, extensively burned, 81 to 90 feet in height, and barren of vegetation. The remaining refuse area was severely eroded, 11 to 20 feet in height with a 3 to 15 percent slope, and also barren. Buildings, machinery, and a 0.3-mile gravel road remained on the tipple area, utilized as a dump. The tipple area supported a moderate, uniformly distributed vegetative cover. Potential for drainage to adjacent streams was not observed.

County Putnam T 32N R 1W S 11

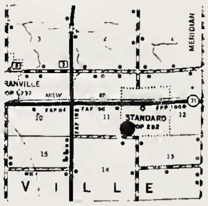
Mine Index U001 Opened -- Closed 1925

Environmental Locale Urban-Residential

Mined by B.F. Berry Coal Co.

Owner Private

Gob Volume 1,860,000 Problem Area Index 177



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
24.8	19.3		5.5			

Description:

This mine, located in an urban-residential area near Standard, consisted of problem acreage associated with an extensively burned gob refuse area and a tipple area. The steeply sloped and severely eroded gob pile was 81 to 90 feet in height and barren of vegetation. Buildings, machinery, and a 0.4-mile gob road remained on the tipple area which supported a good vegetative cover. Potential for drainage to adjacent streams was not observed.

S001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	7.8	1,810	165	0.4	29	0.0	490
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.7	2,800	1.8	15	120	0.6	32	4,700
Burned Gob	5.3	460	0.1	11	0.4	Tr	2.8	500
Slurry								

U001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	5.2	890	6	0.9	63	1.2	47
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.9	1,500	0.5	11	26	0.2	10	2,000
Burned Gob	5.2	140	Tr	7	0.4	Tr	0.8	110
Slurry								

County Randolph T 4S R 5W S 6

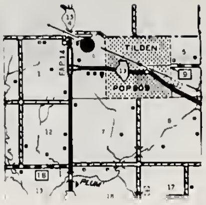
Mine Index S004 Opened 1904 Closed 1948

Environmental Locale Agricultural

Mined by Randolph Coal Corp.

Owner Private

Gob Volume 2,600 Problem Area Index 19



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
0.2	0.2					

Description:

This mine, located in an agricultural area near Tilden, consisted of problem acreage associated with a small gob refuse area. The moderately sloped and eroded gob pile was less than 10 feet in height and barren of vegetation. A 0.1-acre tipple area supporting an excellent vegetative cover was also present. Potential for drainage to adjacent streams was not observed.

County Randolph T 4S R 5W S 10

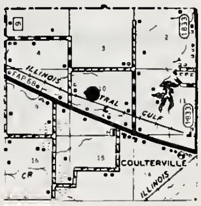
Mine Index S006 Opened 1900 Closed 1950

Environmental Locale Agricultural

Mined by Sparta Coal Co.

Owner Private

Gob Volume 143,800 Problem Area Index 93



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
26.8	19.1	2.8	2.7		2.2	

Description:

This mine, located in an agricultural area approximately 1.5 miles northwest of Coulterville, consisted of problem acreage associated with two partially burned gob refuse areas, two slurry areas, a tipple area, and an off-site terrestrial area. The largest gob pile was steeply sloped, severely eroded, 31 to 40 feet in height, and barren of vegetation. The other problem gob pile was moderately sloped, severely eroded, and less than 10 feet in height. Sparse vegetation cover was scattered on the refuse. One of the slurry refuse areas was severely eroded and barren of vegetation; the other slurry area was not eroded and supported a poor vegetative cover. Foundations and a 0.1-mile gob road remained on the tipple area which supported a moderate vegetative cover. An additional 2.2-acre excellently vegetated gob pile and an on-site unpolluted water impoundment were not considered problem areas. Drainage was flowing from the mine site into an adjacent stream.

NO DRAINAGE OR REFUSE DATA AVAILABLE

S006

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.3	3,900	1,900	190	120	14	3,200
Below Mine	2.3	4,800	1,900	170	140	14	2,500
Gob Pools	2.6	2,300	410	70	0.5	0.6	1,200
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type		pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	#1	2.0	8,200	31	264	1,200	2,800	4.8	17,600
	#2	3.9	2,400	0.7	64	40	1.1	1.4	3,800
	#3	7.8	1,000	Tr	61	0.2	0.2	0.2	980
Burned Gob	#1	3.3	2,400	1.3	15	54	1.1	0.5	4,000
	#2	3.4	2,700	3.1	14	250	2.8	1.3	4,900
Slurry	#1	2.6	3,400	2.4	44	66	33	8.0	4,800
	#2	3.5	160	0.2	41	0.2	0.8	0.1	84

County Randolph T 5S R 5W S 8

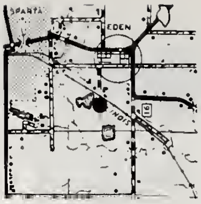
Mine Index S005 Opened 1902 Closed 1940

Environmental Locale Agricultural

Mined by Moffat Coal Co.

Owner Private

Gob Volume 903,000 Problem Area Index 348



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
171.1	74.2	64.3		20.0	12.6	

Description:

This mine, located in an agricultural area approximately 1 mile east of Sparta, consisted of problem acreage associated with two partially burned gob refuse areas, two slurry refuse areas, an on-site water impoundment, and an off-site terrestrial area. Both of the gob piles were steeply sloped, severely eroded, 31 to 40 feet in height, and barren of vegetation. One of the two slurry areas was holding surface water and supported sparse vegetation on its perimeter. The second slurry area was not holding surface water and was barren of vegetation. Both of the slurry areas were severely eroded. Runoff from the gob and slurry refuse areas had affected an on-site water impoundment and an off-site terrestrial area. A second water impoundment on the mine site was unpolluted and was used for recreational purposes. Drainage from the mine refuse areas into an adjacent stream was observed at the mine.

County Randolph T 5S R 6W S 1

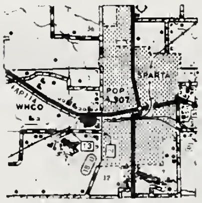
Mine Index S003 Opened 1925 Closed 1944

Environmental Locale Urban-Industrial

Mined by Gulf, Mobile & Ohio Railroad Co.

Owner Private

Gob Volume 4,800 Problem Area Index 26



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
6.3	6.3					

Description:

This mine, located in an urban-industrial area near Sparta, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. A few scattered trees were present on the refuse. A 1.5 -acre tipple area supporting excellent vegetative cover was also present at the mine. Potential for drainage to adjacent streams existed at the site.

S005

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.5	3,600	1,800	96	370	6.3	3,000
Below Mine	3.0	1,330	260	25	30	0.0	960
Gob Pools							
Slurry Pools	2.7	2,800	295	19	23	4.2	2,000
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type		pH	Conductivity micro-mhos/cm	Tit. Acidity meq H+/100g	Pot. Acidity meq H+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	#1	2.6	3,600	4.4	92	210	58	0.6	5,300
	#2	2.8	3,000	1.8	103	70	20	0.2	4,400
Burned Gob	#1	4.0	2,400	1.3	4	110	0.4	0.7	4,100
	#2	3.2	2,600	2.0	18	140	4.4	0.8	4,600
Slurry	#1	3.0	2,600	0.8	292	21	7.5	1.4	4,000
	#2	2.6	3,800	3.4	262	180	36	1.3	5,500

S003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.3	5,000	2,000	220	110	19	3,300
Below Mine							
Gob Pools	3.0	3,700	1,800	160	270	6.6	2,500
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H+/100g	Pot. Acidity meq H+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.2	6,000	23	94	860	1,800	13	14,100
Burned Gob								
Slurry								

County Randolph T 5S R 6W S 2

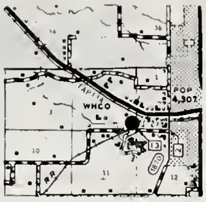
Mine Index U027 Opened -- Closed 1962

Environmental Locale Early Forest

Mined by Davidson & Fulton

Owner Private

Gob Volume None Problem Area Index 30



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.0						

Description:

Intermittant drainage from a pool into an adjacent stream was all that remained of this mine that was located in a forested area near Sparta.

County Randolph T 5S R 6W S 2

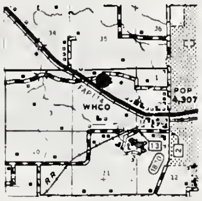
Mine Index U029 Opened --- Closed ---

Environmental Locale Agricultural

Mined by Unknown

Owner Private

Gob Volume 100 Problem Area Index 33



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.6	0.6					

Description:

This mine, located in an agricultural area approximately 1 mile west of Sparta, consisted of problem acreage associated with a small gob refuse area. The uneroded gob pile was less than 1 foot in height. Excellent ground cover vegetation was uniformly distributed on the refuse. Moderate overstory vegetation was also present. The main mine shaft, located on the excellently vegetated 0.5-acre tipple area, was filled with trash and presented a potentially hazardous situation. Potential for a small amount of drainage to an adjacent stream existed at the mine.

U027

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as CaCO$_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO$_4^{-2}$ mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings	6.6	3,100	125	1.0	4.5	1.3	1,100
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H$^+$/100g	Pot. Acidity meq H$^+$/100g	Al ppm	Fe ppm	Mn ppm	SO$_4^{-2}$ ppm
Unburned Gob								
Burned Gob								
Slurry								

U029

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as CaCO$_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO$_4^{-2}$ mg/l
Tipple	6.7	390	16	0.1	0.6	0.0	540
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H$^+$/100g	Pot. Acidity meq H$^+$/100g	Al ppm	Fe ppm	Mn ppm	SO$_4^{-2}$ ppm
Unburned Gob	3.5	1,200	0.2	636	7.2	1.0	1.5	1,700
Burned Gob								
Slurry								

County Randolph T 5S R 6W S 9

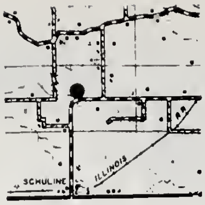
Mine Index U034 Opened -- Closed --

Environmental Locale Forest

Mined by Unknown

Owner Private

Gob Volume 300 Problem Area Index 42



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.1	0.1					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 3 miles west of Sparta. The uneroded gob pile averaged less than 1 foot in height. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Seepage from the mine works produced a small amount of intermittant drainage into an adjacent stream.

County Randolph T 5S R 6W S 27

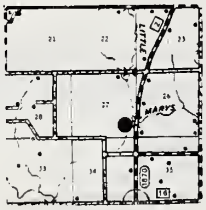
Mine Index L002 Opened 1922 Closed 1953

Environmental Locale Forest

Mined by Blair Coal Co.

Owner Consolidation Coal Co.

Gob Volume 500 Problem Area Index 43



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.0	1.0					

Description:

This mine, located in a forested area approximately 4 miles southwest of Sparta, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile averaged less than 1 foot in height and supported a uniformly distributed cover of moderate ground and overstory vegetation. A 0.5-acre water impoundment at the mine site was not polluted. Seepage from old mine works produced continuous drainage into an adjacent stream.

NO DRAINAGE OR REFUSE DATA AVAILABLE

L002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	6.4	2,600	240	2.2	59	0.0	2,200
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.6	200	0.2	698	0.4	2.5	1.1	110
Burned Gob								
Slurry								

County Randolph T 6S R 5W S 11

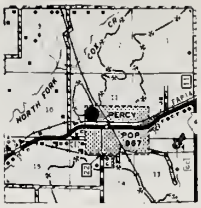
Mine Index U073 Opened --- Closed ---

Environmental Locale Early Forest

Mined by Unknown

Owner Private

Gob Volume 4,500 Problem Area Index 22



Problem Acreage

				On-site		
					Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.4	0.4					

Description:

A small gob pile with associated problem acreage was all that remained of this mine located in a forested area in Percy. The moderately sloped gob pile was 11 to 20 feet in height and supported moderate ground cover and overstory vegetation. Potential for drainage to adjacent streams existed at the mine.

U073

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.7	2,200	0.2	285	6.9	1.6	3.0	3,800
Burned Gob								
Slurry								

County Rock Island T 16N R 1W S 1

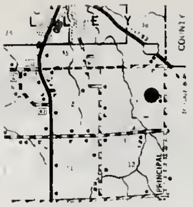
Mine Index L001 Opened 1930 Closed 1940

Environmental Locale Agricultural

Mined by Mielke Brothers

Owner Private

Gob Volume 46,000 Problem Area Index 66



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.9	1.9					

Description:

This mine, located in an agricultural area near Coal Valley, consisted of problem acreage associated with a partially burned gob refuse area. The moderately sloped and severely eroded gob pile was 21 to 30 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of the refuse. Continuous seepage from the gob was observed flowing into an adjacent stream. A second gob pile at the mine site supported an excellent vegetative cover and was being grazed by cattle.

County Rock Island T 17N R 1W S 25

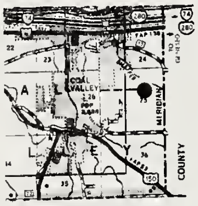
Mine Index L002 Opened 1934 Closed ---

Environmental Locale Forest

Mined by Hunky Dory Coal Co.

Owner Rock Island County Forest Preserve

Gob Volume None Problem Area Index 55



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.0						

Description:

There was no problem acreage associated with this mine located in a forested area near Moline. A 0.2-acre tipple area at the site supported a moderate vegetative cover and was not a problem. However, two open shafts at the mine site constituted a hazard. Continuous drainage from the shafts was flowing into an adjacent stream.

L001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	3.2	2,400	620	9.5	100	12	1,600
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.1	6,000	8.4	160	120	460	0.8	7,400
Burned Gob								
Slurry								

L002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	6.3	2,200	85	5.3	52	2.0	1,400
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Rock Island T 17N R 1W S 36

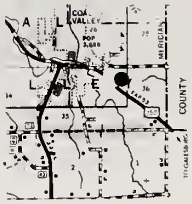
Mine Index U030 Opened 1890 Closed 1902

Environmental Locale Rural-Residential

Mined by Black Diamond Coal Co.

Owner Private

Gob Volume 1,000 Problem Area Index 19



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
0.3	0.3					

Description:

An extensively burned gob refuse area with associated problem acreage was all that remained of this mine located in a rural-residential area near Coal Valley. The small gob pile averaged 2 feet in height. The refuse area had been graded, and only a few scattered trees remained. Potential for drainage to adjacent streams was not observed.

U030

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob	3.9	2,400	0.7	10	44	0.3	4.0	3,900
Slurry								

County Saline T 8S R 5E S 27

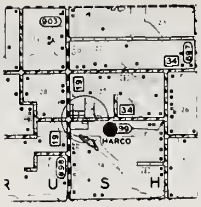
Mine Index S005 Opened 1917 Closed 1951

Environmental Locale Agricultural

Mined by Peabody Coal Co.

Owner Private

Gob Volume 1,890,000 Problem Area Index 384



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
149.7	117.3			21.5	10.9	

Description:

This mine, located in an agricultural area approximately 6 miles northeast of Harrisburg, consisted of problem acreage associated with a partially burned gob refuse area, three on-site water impoundments, and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height. A portion of the gob was removed by a carbon recovery operation. Sparse ground cover and over-story vegetation were restricted to the refuse perimeter. The on-site water impoundments and the off-site terrestrial areas had been affected by runoff from the gob. Slurry that originally existed at the site had been removed by a carbon recovery operation. Drainage flowed from the gob into an adjacent stream.

County Saline T 8S R 5E S 31

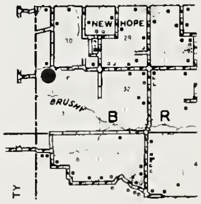
Mine Index S046 Opened 1949 Closed 1954

Environmental Locale Herbs-Shrubs-Trees

Mined by Peabody Coal Co.

Owner Private

Gob Volume 32,700 Problem Area Index 48



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
15.3	12.7				2.6	

Description:

This mine, located approximately 7 miles southwest of Galatia, consisted of problem acreage associated with two gob refuse areas and an off-site terrestrial area. The largest gob pile was moderately sloped, severely eroded, 11 to 20 feet in height, and barren of vegetation. The second gob pile was severely eroded and less than 10 feet in height. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed.

S005

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
#1	3.5	1,470	435	34	110	5.2	650
General Runoff #2	2.3	13,500	14,400	900	490	115	1,700
#1	3.6	1,230	375	16	98	1.1	590
Below Mine #2	2.5	3,400	1,500	120	430	15	2,000
Gob Pools							
Slurry Pools	2.4	9,100	8,100	650	940	65	10,400
Flooded Openings							
Flowing Openings							
#1	4.1	610	7	6.8	0.5	3.5	220
On-site Impoundments #2	2.0	6,800	6,400	400	1,200	45	7,700
#3	7.0	560	7	0.3	0.5	0.0	140
Off-site Aquatic							
Off-site Terrestrial	6.2	800	22	0.9	2.8	2.0	260

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	3,000	2.8	50	180	30	6.6	5,000
Burned Gob	2.2	4,500	2.7	25	20	9.4	0.2	4,000
Slurry								

S046

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.1	510	8	0.2	0.8	0.0	110
General Runoff	3.1	1,050	155	19	2.3	11	470
Below Mine	7.0	500	9	0.2	0.9	0.0	110
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
#1	2.8	4,400	13	20	960	160	37	10,300
Unburned Gob #2	7.7	300	Tr	0	0.1	0.7	0.5	170
Burned Gob								
Slurry								

County Saline T 8S R 6E S 36

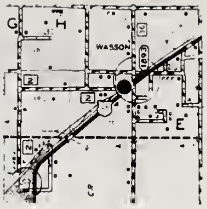
Mine Index S012 Opened 1907 Closed 1952

Environmental Locale Rural-Residential

Mined by Wasson Coal Co.

Owner Private

Gob Volume 7,100 Problem Area Index 55



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
35.6	17.5		18.1			

Description:

This mine, located in a rural-residential area approximately 2 miles southwest of Eldorado, consisted of problem acreage associated with a gob refuse area and a tipple area. The moderately eroded gob pile, utilized as a dump, had been graded and averaged less than 1 foot in height. The refuse area was barren of vegetation. Buildings, foundations, a 0.5-mile gob road, and a 0.4-mile railroad remained on the tipple area, which supported a good vegetative cover. Potential for drainage to adjacent streams existed at the mine.

County Saline T 9S R 5E S 5

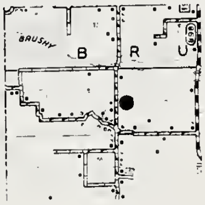
Mine Index S043 Opened 1911 Closed 1957

Environmental Locale Strip Mine-Inactive

Mined by Peabody Coal Co.

Owner Meadowlark Farms

Gob Volume NONE Problem Area Index 20



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
12.8			12.8			

Description:

This mine, located in the vicinity of an inactive strip mine approximately 8 miles northwest of Harrisburg, consisted of problem acreage associated with a tipple area. Buildings, foundations, and a 0.8-mile dirt road remained on the excellently vegetated tipple area. An open air shaft located on the tipple area constituted a hazard. A 26.7-acre gob pile at the mine site had been graded and covered and did not present a problem. Two unpolluted water impoundments also remained at the mine site. Potential for drainage to adjacent streams was not observed.

S012

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.9	1,630	210	9.5	250	2.3	810
Below Mine	4.5	1,050	48	2.4	2.1	3.0	480
Gob Pools	2.6	2,200	345	15	200	4.1	970
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	330	0.2	82	1.2	2.3	0.6	200
Burned Gob								
Slurry								

S043

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.4	1,940	8	0.0	0.5	1.3	780
General Runoff							
Below Mine	7.3	1,610	8	0.7	0.7	8.2	720
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Saline T 9S R 5E S 13

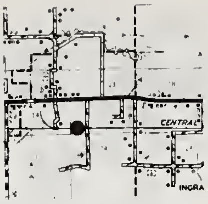
Mine Index S039 Opened 1940 Closed 1972

Environmental Locale Agricultural

Mined by Sahara Coal Co.

Owner Sahara Coal Co.

Gob Volume 5,000 Problem Area Index 27



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
7.0	3.1		3.9			

Description:

This mine, located in an agricultural area approximately 2 miles west of Harrisburg, consisted of problem acreage associated with a gob refuse area and a tipple area. The severely eroded gob pile, part of which had been removed, averaged 1 foot in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Buildings, machinery, a 0.2-mile dirt road, and a 0.3-mile gob road remained on the tipple area, which supported a good vegetative cover. A 12.0-acre unpolluted on-site water impoundment was also present. Potential for drainage to adjacent streams existed at the mine.

County Saline T 9S R 5E S 33

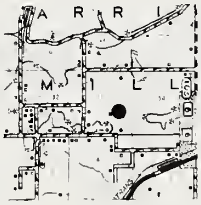
Mine Index S011 Opened 1916 Closed 1942

Environmental Locale Agricultural

Mined by Wasson Coal Co.

Owner Private

Gob Volume 400 Problem Area Index 34



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
.6	.6					

Description:

This mine, located in an agricultural area approximately 1 mile west of Carrier Mills, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile averaged less than 1 foot in height and supported scattered, moderate vegetative cover. Potential for drainage to adjacent streams existed at the mine.

S039

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	6.4	900	50	0.3	28	1.3	310
Gob Pools	7.8	710	8	0.2	1.1	0.0	210
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.5	680	0.1	50	1.2	21	1.9	820
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Saline T 9S R 5E S 34

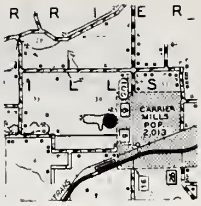
Mine Index U068 Opened -- Closed --

Environmental Locale Agricultural

Mined by Dodds Coal Co.

Owner Private

Gob Volume 1,900 Problem Area Index 23



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.3	2.3					

Description:

This mine, located in an agricultural area near Carrier Mills, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile averaged less than 1 foot in height. Poor ground cover and sparse overstory vegetation were restricted to its perimeter. Potential for drainage to adjacent streams existed at the mine.

County Saline T 9S R 5E S 34

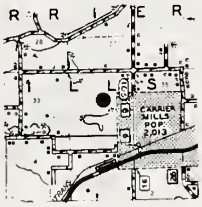
Mine Index L014 Opened 1936 Closed 1953

Environmental Locale Agricultural

Mined by Lanham Coal Co.

Owner Private

Gob Volume 11,000 Problem Area Index 33



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
4.4	4.4					

Description:

This mine, located in an agricultural area near Carrier Mills, consisted of problem acreage associated with a partially burned gob refuse area. The severely eroded gob pile had been graded and averaged 1.5 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams existed at the mine.

U068

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,400	0.9	177	38	7.5	1.0	4,000
Burned Gob								
Slurry								

L014

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.5	2,900	830	140	57	34	2,100
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	2,500	1.1	49	45	11	3.9	4,100
Burned Gob	3.7	2,000	0.8	11	48	0.2	1.5	3,200
Slurry								

County Saline T 9S R 5E S 36

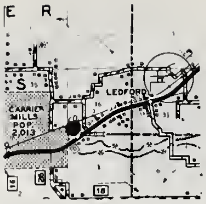
Mine Index U008 Opened --- Closed 1928

Environmental Locale Urban-Residential

Mined by Saline Valley Coal Co.

Owner Private

Gob Volume 1,100 Problem Area Index 28



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.0	2.0					

Description:

This mine, located in an urban-residential area near Carrier Mills, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile, utilized as a dump, averaged less than 1 foot in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Saline T 9S R 6E S 2

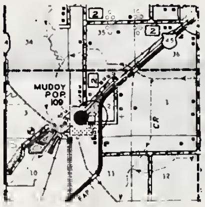
Mine Index S010 Opened 1904 Closed 1938

Environmental Locale Rural-Residential

Mined by Sahara Coal Co.

Owner Gateway Farms

Gob Volume 4,300 Problem Area Index 41



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
15.0	10.6		4.4			

Description:

This mine, located in a rural-residential area near Muddy, consisted of problem acreage associated with a gob refuse area and a tipple area. The severely eroded gob pile averaged less than 1 foot in height. Sparse ground cover and overstory vegetation were restricted to the refuse perimeter. Buildings, foundations, a 0.2-mile gob road, and a 0.2-mile railroad remained on the moderately vegetated tipple area. Potential for drainage into adjacent streams existed at the mine.

U008

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	6.3	750	18	0.2	0.3	0.0	150
General Runoff							
Below Mine	6.8	740	17	0.1	0.8	0.6	220
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.3	660	0.5	87	11	1.6	4.1	540
Burned Gob								
Slurry								

S010

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	3.5	1,300	55	5.8	2.3	1.6	480
Gob Pools	2.8	1,200	150	4.9	32	1.0	310
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.4	2,900	8.1	66	230	830	4.8	4,500
Burned Gob								
Slurry								

County Saline T 9S R 6E S 2

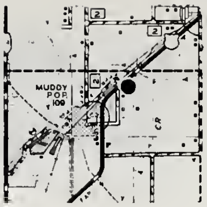
Mine Index S007 Opened 1905 Closed 1939

Environmental Locale Agricultural

Mined by Sahara Coal Co.

Owner Private

Gob Volume 11,000 Problem Area Index 43



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
26.0	22.0		4.0			

Description:

This mine, located in an agricultural area near Muddy, consisted of problem acreage associated with a gob refuse area and a tipple area. The gob pile was less than 10 feet in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. A second gob pile covering 5.6 acres and supporting an excellent vegetative cover was considered not to be a problem. Buildings, foundations, a 0.2-mile gob road, and a 0.2-mile railroad remained on the tipple area which supported an excellent vegetative cover. A 0.4-acre on-site water impoundment was not polluted and did not present a problem. Potential for drainage to adjacent streams existed at the mine.

County Saline T 9S R 6E S 15

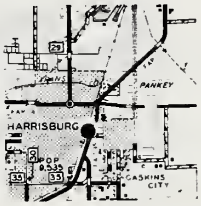
Mine Index S008 Opened 1904 Closed 1938

Environmental Locale Urban-Industrial

Mined by Sahara Coal Co.

Owner Private

Gob Volume 8,000 Problem Area Index 35



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
10.0	10.0					

Description:

This mine, located in an urban-industrial area in Harrisburg, consisted of problem acreage associated with two gob refuse areas. Gob had been removed from both refuse areas which averaged less than 1 foot in height. Sparse ground cover vegetation was restricted to the perimeter of the larger gob pile, while the smaller pile supported scattered, poor ground cover vegetation. Potential for drainage to adjacent streams existed at the mine.

S007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.8	1,020	8	0.3	2.9	0.0	46
General Runoff							
Below Mine	7.0	870	24	0.0	5.6	0.0	63
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	3.6	260	0.2	340	2.7	1.2	0.3	150
#2	4.5	90	0.1	64	0.3	0.5	0.7	64
Slurry								

S008

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.1	1,280	7	0.2	1.0	1.2	640
General Runoff							
Below Mine #1	7.5	1,020	10	0.2	2.8	1.2	570
#2	7.6	960	6	0.0	1.7	0.4	260
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	3.2	2,600	1.1	37	55	6.8	9.1	4,300
#2	3.2	390	0.3	113	3.1	4.2	0.4	220
Slurry								

County Saline T 9S R 6E S 21

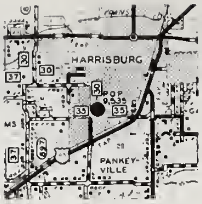
Mine Index U015 Opened 1904 Closed 1923

Environmental Locale Urban-Residential

Mined by O'Gara Coal Co.

Owner Private

Gob Volume NONE Problem Area Index 21



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
3.0			3.0			

Description:

This mine, located in an urban-residential area in Harrisburg, consisted of problem acreage associated with a tipple area. Unsafe buildings remained on the excellently vegetated tipple area which was used as a parking lot by a fertilizer plant. Potential for drainage to adjacent streams did not exist.

County Saline T 9S R 6E S 27

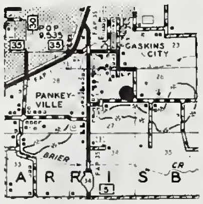
Mine Index S015 Opened 1939 Closed 1947

Environmental Locale Rural-Residential

Mined by Bankston Creek Collieries Co.

Owner Private

Gob Volume 1,300 Problem Area Index 29



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
4.6	4.6					

Description:

This mine, located in a rural-residential area near Harrisburg, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile, part of which had been removed, averaged less than 1 foot in height. Sparse ground cover vegetation was restricted to the refuse perimeter. Potential for drainage to adjacent streams existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

S015

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	2.2	5,400	3,500	390	480	75	4,400
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.2	4,800	14	27	740	430	38	8,200
Burned Gob								
Slurry								

County Saline T 9S R 6E S 31

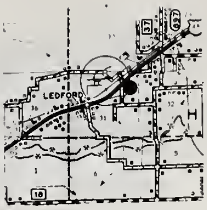
Mine Index U070 Opened -- Closed --

Environmental Locale Early Forest

Mined by Ledford Mine

Owner Private

Gob Volume NONE Problem Area Index 57



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.3					0.3	

Description:

Continuous drainage from a shaft at this mine site, located in a forested area approximately 2 miles southwest of Harrisburg, had affected an adjacent off-site terrestrial area. Drainage into an adjacent stream was also observed.

County Saline T 9S R 7E S 1

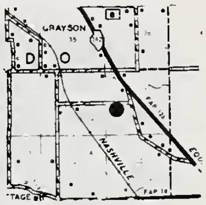
Mine Index L089 Opened 1948 Closed 1950

Environmental Locale Agricultural

Mined by Lanham Coal Co.

Owner Private

Gob Volume 100 Problem Area Index 18



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 4 miles southeast of Eldorado. The gob pile averaged less than 1 foot in height and had been partially graded and covered. Poor ground cover and sparse overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams existed at the mine.

U070

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	2.8	3,100	445	29	210	8.0	1,800
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	3.5	2,900	100	32	240	6.1	1,700
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

L089

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	2.7	4,200	850	2.0	140	2.8	2,800
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	1,300	0.7	36	26	3.0	6.6	4,200
Burned Gob								
Slurry								

County Saline T 9S R 7E S 1

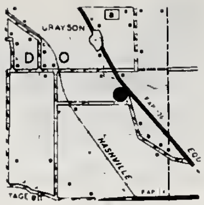
Mine Index U059 Opened -- Closed 1935

Environmental Locale Agricultural

Mined by Sun Valley Coal Co.

Owner Private

Gob Volume 500 Problem Area Index 20



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.2	1.2					

Description:

This mine, located in an agricultural area approximately 4 miles southeast of Eldorado, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile averaged less than 1 foot in height. Poor ground cover and sparse overstory vegetation were restricted to its perimeter. Potential for drainage to adjacent streams existed at the mine.

County Saline T 9S R7E S 14

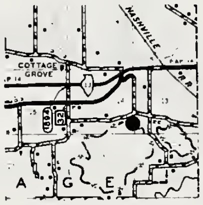
Mine Index U042 Opened -- Closed --

Environmental Locale Strip Mine-Inactive

Mined by Lands Coal Co.

Owner Private

Gob Volume None Problem Area Index 19



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.0						

Description:

All that remained of this mine, located in the vicinity of an inactive strip mine approximately 5 miles southeast of Eldorado, was a small opening in the side of a hill. Apparently, this was the original slope entrance into the mine. The opening constituted a hazard to children playing in the area.

U059

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.4	1,210	190	20	24	9.5	530
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Saline T 10S R 7E S 13

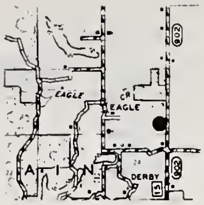
Mine Index U060 Opened -- Closed --

Environmental Locale Strip Mine-Inactive

Mined by T. Osborn

Owner Private

Gob Volume 300 Problem Area Index 24



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.0	1.0					

Description:

This mine, located in the vicinity of an inactive strip mine approximately 11 miles southeast of Harrisburg, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile averaged less than 1 foot in height. Poor ground cover and sparse overstory vegetation were restricted to the perimeter of the refuse. Potential for drainage to adjacent streams existed at the mine.

County Saline T 10S R 7E S 13

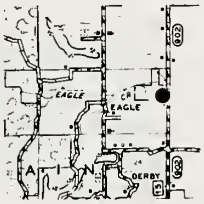
Mine Index L044 Opened 1933 Closed 1952

Environmental Locale Forest

Mined by Thomas Osborn Mine

Owner United States Forest Service

Gob Volume None Problem Area Index 45



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.8					2.8	

Description:

Continuous drainage from a shaft at this mine site, located in a forested area approximately 11 miles southeast of Harrisburg, had affected an adjacent off-site terrestrial area. Drainage into an adjacent stream was also observed.

U060

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.4	180	0.1	49	0.2	0.4	0.9	170
Burned Gob								
Slurry								

L044

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	2.5	1,470	360	23	60	7.3	520
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	2.4	4,600	2,300	140	730	14	3,500
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial	2.1	4.100	1,800	94	240	17	3,400

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	2,600	1.4	11	46	32	3.8	1,100
Burned Gob								
Slurry								

County Sangamon T 13N R 6W S 34

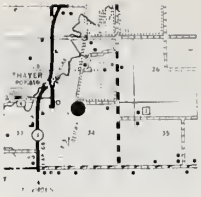
Mine Index S010 Opened 1900 Closed 1924

Environmental Locale Agricultural

Mined by Chicago-Wilmington & Franklin Coal Co.

Owner Private

Gob Volume 4,800 Problem Area Index 24



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
4.0	3.0		1.0			

Description:

This mine, located in an agricultural area near Thayer, consisted of problem acreage associated with a partially burned gob refuse area and a tipple area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. The refuse area had been utilized as a dump, and part of the gob had been removed. Sparse ground cover was restricted to the refuse perimeter. Buildings and foundations remained on the tipple area, which supported a good vegetative cover. Potential for drainage to adjacent streams was not observed.

County Sangamon T 14N R 6W S 13

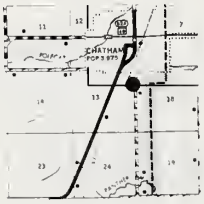
Mine Index U021 Opened -- Closed 1950

Environmental Locale Urban-Residential

Mined by Illinois Collieries Mine

Owner Private

Gob Volume 300 Problem Area Index 22



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an urban-residential area near Chatham. The moderately eroded gob pile, which was barren of vegetation, had been graded and averaged 1 foot in height. Potential for drainage to adjacent streams was not observed.

S010

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	1.8	8,200	18	170	850	570	1.3	12,300
Burned Gob	2.0	14,300	144	86	5,200	13,600	107	81,000
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Sangamon T 16N R 4W S 10

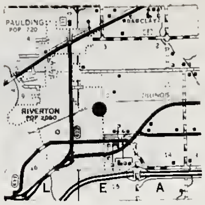
Mine Index S021 Opened 1893 Closed 1942

Environmental Locale Agricultural

Mined by Peabody Coal Co.

Owner Private

Gob Volume 14,000 Problem Area Index 28



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
3.1	2.0		1.1			

Description:

This mine, located in an agricultural area near Riverton, consisted of problem acreage associated with a gob refuse area and a tipple area. The moderately sloped and eroded gob pile, part of which had been removed, was 21 to 30 feet in height. Sparse ground cover was restricted to the perimeter of the refuse. Buildings and foundations remained on the moderately vegetated tipple area. A 1.4-acre unpolluted water impoundment was also present on the site. Potential for drainage to adjacent streams was not observed.

County Sangamon T 16N R 4W S 12

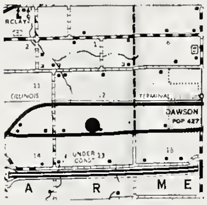
Mine Index L015 Opened 1936 Closed 1955

Environmental Locale Agricultural

Mined by Farrand Coal Co.

Owner Private

Gob Volume 100 Problem Area Index 15



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
2.0	2.0					

Description:

This mine, located in an agricultural area approximately 2 miles east of Riverton, consisted of problem acreage associated with a gob refuse area. The gob was spread along approximately 1.5 miles of a railroad grade. Moderate ground cover vegetation was present on the refuse. Potential for drainage to adjacent streams was not observed.

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.3	4,600	9.3	163	320	870	6.1	7,800
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Sangamon T 16N R 5W S 13

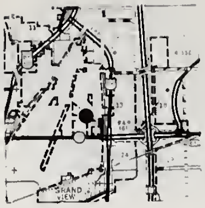
Mine Index S007 Opened 1905 Closed 1951

Environmental Locale Urban-Industrial

Mined by Peabody Coal Co.

Owner Private

Gob Volume 205,000 Problem Area Index 80



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
22.2	20.2			2.0		

Description:

This mine, located in an urban-industrial area near Springfield, consisted of problem acreage associated with two gob refuse areas and an on-site water impoundment. The gob pile covering the largest acreage had been graded and was less than 10 feet in height with a 3 to 15 percent slope. Good ground cover vegetation was uniformly distributed on the refuse area. Moderate overstory vegetation was restricted to the perimeter of the refuse. The second severely eroded gob pile, which had also been graded, was 11 to 20 feet in height with a 3 to 15 percent slope. Moderate ground cover and overstory vegetation were scattered on this refuse. Runoff from the gob had affected an on-site water impoundment. Potential for drainage to adjacent streams was not observed.

County Sangamon T 16N R 5W S 24

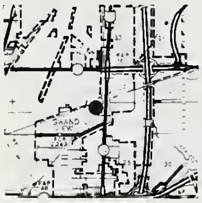
Mine Index U009 Opened --- Closed ---

Environmental Locale Urban-Residential

Mined by Springfield Coal & Mining Co.

Owner Private

Gob Volume 5,200 Problem Area Index 34



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
19.2	19.2					

Description:

This mine, located in an urban-residential area in Springfield, consisted of problem acreage associated with a gob refuse area. The refuse area had been graded, and most of the gob had been removed. Only a thin layer of gob refuse remained. Moderate ground cover and sparse overstory vegetation were uniformly distributed on the refuse. Potential for drainage to adjacent streams was not observed.

S007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.3	1,140	24	0.1	0.5	0.0	1,400
General Runoff							
Below Mine	7.0	1,350	43	0.2	3.3	0.0	1,200
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.9	1,280	4	0.2	1.2	0.0	1,200
Off-site Aquatic	8.1	1,230	3	0.1	0.2	0.6	1,400
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.9	2,700	1.3	47	77	7.4	0.9	4,300
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Sangamon T 17N R 4W S 17

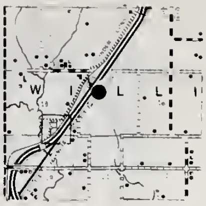
Mine Index U019 Opened --- Closed 1924

Environmental Locale Agricultural

Mined by Peabody Coal Co.

Owner Private

Gob Volume 5,900 Problem Area Index 23



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
4.9	4.9					

Description:

This mine, located in an agricultural area approximately 2 miles southwest of Williamsville, consisted of problem acreage associated with a gob refuse area. The moderately eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Moderate ground cover and overstory vegetation were uniformly distributed on the refuse. Potential for drainage to adjacent streams was not observed.

County Sangamon T 17N R 4W S 35

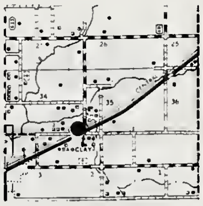
Mine Index U031 Opened 1883 Closed 1926

Environmental Locale Agricultural

Mined by Barclay Coal Mining Co.

Owner Private

Gob Volume 16,000 Problem Area Index 28



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
2.5	2.5					

Description:

This mine, located in an agricultural area near Barclay, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile was 21 to 30 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams was not observed.

U019

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.0	1,720	0.3	105	13	3.8	4.0	2,500
Burned Gob								
Slurry								

U031

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	1,600	0.5	256	4.0	0.9	1.4	1,900
Burned Gob								
Slurry								

County Sangamon T 17N R 5W S 16

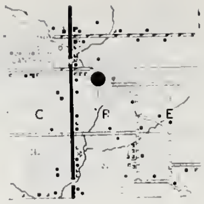
Mine Index L007 Opened 1917 Closed 1964

Environmental Locale Agricultural

Mined by Eddy Coal Co.

Owner Private

Gob Volume 8,900 Problem Area Index 24



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
1.0	1.0					

Description:

This mine, located in an agricultural area near Cantrall, consisted of problem acreage associated with a partially burned gob refuse area. The severely eroded gob pile had been graded and averaged 3 feet in height. Sparse ground cover vegetation was scattered on the refuse. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Sangamon T 17N R 7W S 35

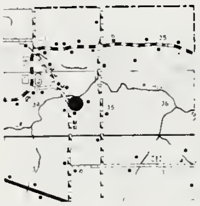
Mine Index L005 Opened 1905 Closed 1950

Environmental Locale Agricultural

Mined by Happy Hollow Coal Co.

Owner Private

Gob Volume 4,200 Problem Area Index 20



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.6	0.6					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 2 miles east of Pleasant Plains. The steeply sloped and severely eroded gob pile was 11 to 20 feet in height. Good ground cover and moderate overstory vegetation were scattered on the area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Sangamon T 17N R 5W S 6

Mine Index L004 Opened 1922 Closed 1952

Environmental Locale Agricultural

Mined by Barr Coal Co.

Owner Private

Gob Volume 2,700 Problem Area Index 19

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.4	0.4					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 2 miles northwest of Cantrall. The moderately sloped and eroded gob pile had been graded and was less than 10 feet in height. Poor ground cover vegetation was scattered on the area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Schuyler T 1N R 1E S 4

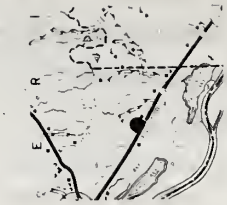
Mine Index U032 Opened --- Closed ---

Environmental Locale Rural-Residential

Mined by Spillers Mine

Owner Private

Gob Volume 4,000 Problem Area Index 25



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.5	0.5					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a rural-residential area approximately 2 miles northeast of Frederick. The uneroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

County Schuyler T 2N R 1W S 12

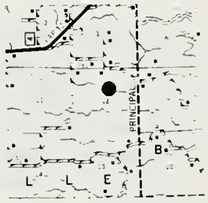
Mine Index U043 Opened --- Closed 1930

Environmental Locale Early Forest

Mined by L. Sipes

Owner Private

Gob Volume 700 Problem Area Index 15



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.2	0.2					

Description:

A small gob refuse pile with associated problem acreage was all that remained of this gob pile located in a forested area approximately 7 miles northeast of Rushville. The uneroded gob pile averaged 2 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams was not observed.

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	600	0.3	73	4.3	0.2	2.4	460
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Schuyler T 2N R 1W S 20

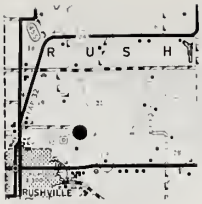
Mine Index U029 Opened --- Closed ---

Environmental Locale Herbs-Shrubs-Trees

Mined by Unknown

Owner The Scripps Company

Gob Volume 1,500 Problem Area Index 17



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located near Rushville. The uneroded gob pile was less than 10 feet in height. Good ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Schuyler T 2N R 1W S 22

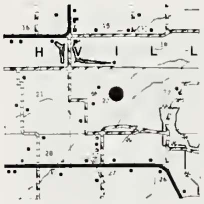
Mine Index L006 Opened 1937 Closed 1961

Environmental Locale Agricultural

Mined by D. & D. Coal Co., Inc.

Owner Private

Gob Volume 68,000 Problem Area Index 47



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
5.3	5.3					

Description:

This mine, located in an agricultural area approximately 3 miles northeast of Rushville, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover vegetation was scattered on the refuse, and sparse overstory vegetation was restricted to the perimeter. The tipple remained standing on the gob refuse. Potential for drainage to adjacent streams existed at the mine.

U029

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.3	2,400	0.3	565	2.9	6.0	1.7	3,900
Burned Gob								
Slurry								

L006

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	7.7	1,420	11	0.2	0.8	0.0	460
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	3,100	1.3	366	12	23	0.5	4,300
Burned Gob								
Slurry								

County Schuyler T 2N R 1W S 26

Mine Index U010 Opened --- Closed ---

Environmental Locale Agricultural

Mined by Unknown

Owner Private

Gob Volume 800 Problem Area Index 20

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.1	0.1					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 3 miles east of Rushville. The uneroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Moderate ground cover vegetation was uniformly distributed on the refuse. Potential for drainage to adjacent streams existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Schuyler T 2N R 1W S 26

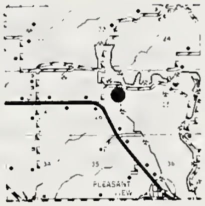
Mine Index L004 Opened 1923 Closed 1945

Environmental Locale Early Forest

Mined by Little Dog Mine

Owner Private

Gob Volume 2,400 Problem Area Index 20



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 3 miles east of Rushville. The uneroded gob pile averaged 5 feet in height and supported good ground cover vegetation uniformly distributed on the refuse. Potential for drainage to adjacent streams existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Schuyler T 3N R 1W S 26

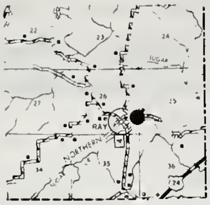
Mine Index U056 Opened --- Closed ---

Environmental Locale Rural-Residential

Mined by Unknown

Owner Private

Gob Volume 1,900 Problem Area Index 21



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.8	0.3		0.5			

Description:

This mine, located in a rural-residential area in Ray, consisted of problem acreage associated with a small gob refuse area and a tipple area. The uneroded gob pile, which was utilized as a dump, averaged 4 feet in height with a 3 to 15 percent slope. Poor ground cover and moderate overstory vegetation were restricted to its perimeter. Buildings and foundations remained on the tipple area, which was part of the dump. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Schuyler T 3N R 2W S 6

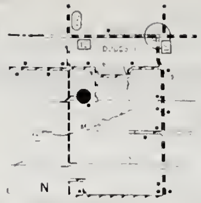
Mine Index U041 Opened 1917 Closed ---

Environmental Locale Early Forest

Mined by R. Allen

Owner Private

Gob Volume 1,000 Problem Area Index 15



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 5 miles northwest of Littleton. The uneroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

County Schuyler T 3N R 2W S 7

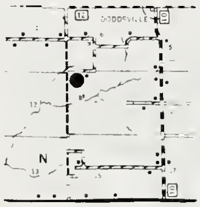
Mine Index L078 Opened 1938 Closed ---

Environmental Locale Early Forest

Mined by C. Pershing

Owner Private

Gob Volume 700 Problem Area Index 15



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 5 miles northwest of Littleton. The uneroded gob pile averaged 2 feet in height. Poor ground cover and moderate overstory vegetation were uniformly distributed on the refuse. Potential for drainage to adjacent streams was not observed.

U041

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,500	1.4	173	89	1.9	0.8	4,000
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Schuyler T 3N R 2W S 12

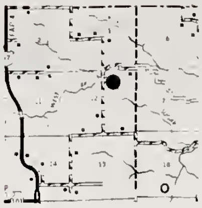
Mine Index U044 Opened --- Closed ---

Environmental Locale Early Forest

Mined by J. Bean

Owner Private

Gob Volume 3,200 Problem Area Index 18



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.0	1.0					

Description:

This mine, located in a forested area approximately 4 miles northeast of Littleton, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile averaged 2 feet in height with a 3 to 15 percent slope. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

County Schuyler T 3N R 3W S 14

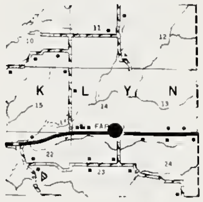
Mine Index L012 Opened 1932 Closed ---

Environmental Locale Early Forest

Mined by Stroup Coal Co.

Owner Private

Gob Volume 19,000 Problem Area Index 30



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.0	1.0					

Description:

This mine, located in a forested area approximately 4.5 miles west of Littleton, consisted of problem acreage associated with a gob refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Sparse ground cover and overstory vegetation were restricted to the perimeter. A 4.0-acre gob refuse area on the mine site had been planted to pine trees and no longer presented a problem. Potential for drainage to adjacent streams existed at the mine.

U044

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.3	350	0.3	199	3.5	0.8	1.3	180
Burned Gob								
Slurry								

L012

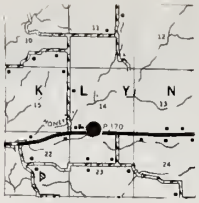
Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.2	90	0.1	78	2.8	0.5	0.5	140
Burned Gob								
Slurry								

County Schuyler T 3N R 3W S 14
Mine Index L009 Opened 1931 Closed 1943
Environmental Locale Agricultural
Mined by L. Clevenger Mine
Owner Private
Gob Volume 300 Problem Area Index 16



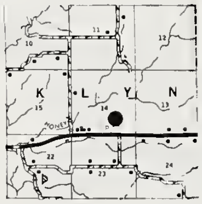
Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area approximately 5 miles west of Littleton. The moderately eroded gob pile averaged 1 foot in height. Good ground cover vegetation was uniformly distributed on the area. Potential for drainage to adjacent streams was not observed.

County Schuyler T 3N R 3W S 14
Mine Index U035 Opened --- Closed ---
Environmental Locale Early Forest
Mined by Unknown
Owner Private
Gob Volume 7,300 Problem Area Index 21



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 4 miles west of Littleton. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Sparse ground cover vegetation was restricted to the refuse perimeter. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U035

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	460	0.3	50	4.7	0.4	1.1	270
Burned Gob								
Slurry								

County Schuyler T 3N R 3W S 24

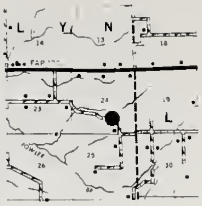
Mine Index L068 Opened 1937 Closed 1942

Environmental Locale Early Forest

Mined by Merle & Dean

Owner Private

Gob Volume 300 Problem Area Index 17



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.1	0.1					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 3.5 miles southwest of Littleton. The uneroded gob pile averaged 2 feet in height with a 3 to 15 percent slope. Moderate ground cover and overstory vegetation were present on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Schuyler T 3N R 3W S 24

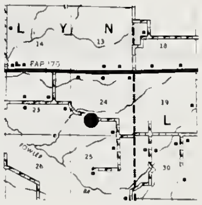
Mine Index L007 Opened 1936 Closed 1943

Environmental Locale Early Forest

Mined by Archie Shanks

Owner Private

Gob Volume 200 Problem Area Index 13



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.6	0.1		0.5			

Description:

This mine, located in a forested area approximately 4 miles southwest of Littleton, consisted of problem acreage associated with a small gob refuse area and a tipple area. The uneroded gob pile averaged 1 foot in height and supported moderate ground cover vegetation on the perimeter. Buildings and foundations remained on the excellently vegetated tipple area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Scott T 13N R 12W S 15

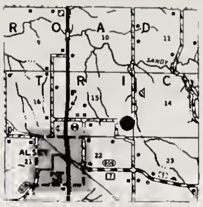
Mine Index L007 Opened 1931 Closed 1942

Environmental Locale Forest

Mined by Josh Hepworth

Owner Private

Gob Volume 100 Problem Area Index 13



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 1 mile northeast of Alsey. The uneroded gob pile averaged less than 1 foot in height. Sparse ground cover and overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Shelby T 11N R 2E S 23

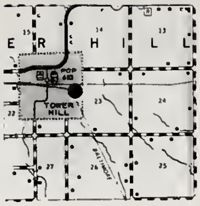
Mine Index U001 Opened -- Closed 1913

Environmental Locale Agricultural

Mined by Tower Hill Coal Co.

Owner Private

Gob Volume 12,000 Problem Area Index 37



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
11.4	2.6	1.1			7.7	

Description:

This mine, located in an agricultural area near Tower Hill, consisted of problem acreage associated with a gob refuse area, a slurry refuse area, and an off-site terrestrial area. The uneroded gob pile, utilized as a dump, was 11 to 20 feet in height with a 3 to 15 percent slope. Moderate ground cover and overstory vegetation were scattered on the refuse. Sparse ground cover vegetation was restricted to the perimeter of the uneroded slurry area. Runoff from the gob and slurry refuse had affected an adjacent off-site terrestrial area. A water impoundment was present on the site. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Stark T 12N R 5E S 19

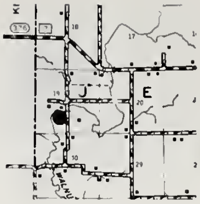
Mine Index U010 Opened -- Closed 1930

Environmental Locale Forest

Mined by E.B. Catton

Owner Private

Gob Volume 200 Problem Area Index 58



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.2	0.1					0.1

Description:

This mine, located in a forested area approximately 3 miles southwest of West Jersey, consisted of problem acreage associated with a gob refuse area and an off-site aquatic area. The uneroded gob pile, utilized as a dump, averaged 1 foot in height. Sparse ground cover and moderate overstory vegetation were uniformly distributed on the refuse. The main shaft of the mine was open and constituted a hazard. Drainage from the shaft had affected an off-site aquatic area, and potential for drainage to adjacent streams existed.

County Stark T 14N R 6E S 15

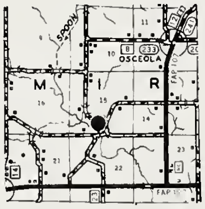
Mine Index L003 Opened 1933 Closed 1943

Environmental Locale Early Forest

Mined by Galli Coal Co.

Owner Private

Gob Volume 4,800 Problem Area Index 20



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.5	0.5					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 2 miles southwest of Osceola. The uneroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Sparse ground cover and moderate overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams was not observed.

U010

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings	6.6	2,500	6,100	0.6	63	2.4	2,100
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

L003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.0	5,900	13	107	490	930	8.8	10,300
Burned Gob								
Slurry								

County Stark T 14N R 6E S 16

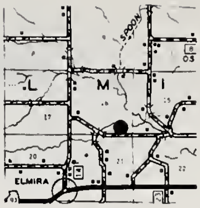
Mine Index L013 Opened 1933 Closed 1946

Environmental Locale Early Forest

Mined by Jesse Strum Coal Co.

Owner Private

Gob Volume 8,100 Problem Area Index 22



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.0	1.0					

Description:

This mine, located in a forested area approximately 1 mile northeast of Elmira, consisted of problem acreage associated with a partially burned refuse area. The moderately sloped and severely eroded gob pile was less than 10 feet in height. Poor ground cover and sparse overstory vegetation were restricted to its perimeter. Potential for drainage to adjacent streams was not observed.

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.3	2,600	1.1	24	86	1.1	2.2	4,200
Burned Gob								
Slurry								

County St, Clair T 1N R 6W S 32

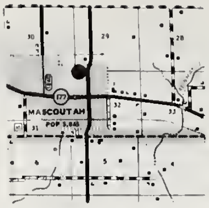
Mine Index L007 Opened 1868 Closed 1956

Environmental Locale Urban-Residential

Mined by Schubert Coal Co.

Owner Private

Gob Volume 400 Problem Area Index 26



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.5	1.5					

Description:

This mine, located in an urban-residential area in Mascoutah, consisted of problem acreage associated with a gob refuse area. The gob pile had been graded and averaged less than 1 foot in height. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County St. Clair T 1N R 7W S 18

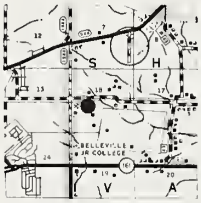
Mine Index S017 Opened 1897 Closed 1954

Environmental Locale Agricultural

Mined by Oak Coal Co.

Owner Private

Gob Volume 20,000 Problem Area Index 34



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.5	2.5					

Description:

This mine, located in an agricultural area approximately 2 miles southwest of Shiloh, consisted of problem acreage associated with a gob refuse area. The moderately sloped and eroded gob pile was less than 10 feet in height and barren of vegetation. A 2.5-acre tipple area supporting good vegetation was not a problem. Drainage was flowing from the gob refuse into an adjacent stream.

NO DRAINAGE OR REFUSE DATA AVAILABLE

S017

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	5.6	1,090	185	2.2	39	1.7	620
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.9	2,600	1.2	48	62	5.9	0.6	4,000
Burned Gob								
Slurry								

County St. Clair T 1N R 7W S 35

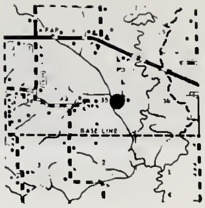
Mine Index U182 Opened --- Closed ---

Environmental Locale Agricultural

Mined by Belle Valley Coal Co. Slag Dump

Owner Private

Gob Volume 68,000 Problem Area Index 58



Problem Acreage

				On-site	Off-site	
Total	**Gob**	**Slurry**	**Tipple**	**Impoundment**	**Terrestrial**	**Aquatic**
10.0	6.0				4.0	

Description:

The problem acreage at this location, an agricultural area approximately 1 mile west of Mascoutah, was not related to a particular mine site. Belle Valley Coal Company used this area to deposit gob which resulted from mining operations at several mines. The severely eroded gob pile, barren of vegetation, was less than 10 feet in height with a 3 to 15 percent slope. Runoff from the gob had affected an adjacent off-site terrestrial area. Drainage from the gob was flowing into an adjacent stream.

County St. Clair T 1N R 8W S 26

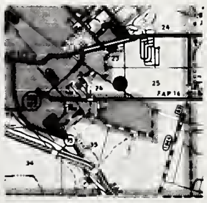
Mine Index L070 Opened 1938 Closed 1970

Environmental Locale Agricultural

Mined by Belle Valley Coal Co.

Owner Private

Gob Volume 3,600 Problem Area Index 29



Problem Acreage

				On-site	Off-site	
Total	**Gob**	**Slurry**	**Tipple**	**Impoundment**	**Terrestrial**	**Aquatic**
4.5	4.5					

Description:

This mine, located in an agricultural area near Belleville, consisted of problem acreage associated with a gob refuse area. Gob was scattered on what had originally been the tipple site. Buildings remained on this area where the gob averaged less than 1 foot in height. Sparse ground cover vegetation was scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

U182

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	2.2	5,000	3,600	180	1,900	5.4	3,800
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.0	5,900	18	51	600	1,700	2.0	12,400
Burned Gob								
Slurry								

L070

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	2.2	4,600	2,000	100	310	17	3,000
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	2,000	1.2	58	14	38	0.8	2,200
Burned Gob								
Slurry								

County St. Clair T 1N R 8W S 27

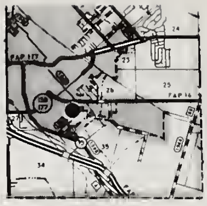
Mine Index U137 Opened --- Closed ---

Environmental Locale Urban-Residential

Mined by Belle Valley Coal Co.

Owner Private

Gob Volume 100 Problem Area Index 24



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an urban-residential area in Belleville. The moderately eroded gob pile averaged less than 1 foot in height. Moderate ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County St. Clair T 1N R 8W S 29

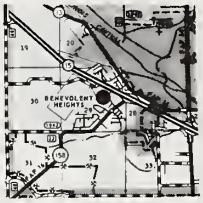
Mine Index U151 Opened 1883 Closed ---

Environmental Locale Urban-Industrial

Mined by F. Murphy

Owner Private

Gob Volume 100 Problem Area Index 12



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
0.5	0.5					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an urban-industrial area in Belleville. The gob pile had been graded and averaged less than 1 foot in height. Moderate ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	2.4	4,300	1,400	230	100	20	2,900
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County St. Clair T 1N R 8W S 33

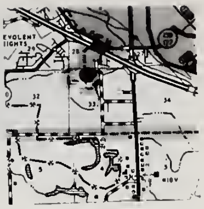
Mine Index S025 Opened 1911 Closed 1953

Environmental Locale Urban-Residential

Mined by Southside Coal & Mining Co.

Owner Private

Gob Volume 100 Problem Area Index 24



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an urban-residential area in Belleville. The severely eroded gob pile had been graded and averaged less than 1 foot in height. The refuse area was barren of vegetation. Potential for drainage to adjacent streams existed at the mine.

County St. Clair T 1N R 9W S 11

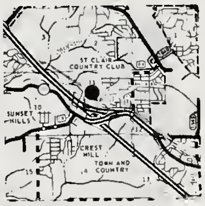
Mine Index L020 Opened 1932 Closed 1940

Environmental Locale Agricultural

Mined by Bunker Hill Coal Co.

Owner Private

Gob Volume 800 Problem Area Index 21



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.5	0.5					

Description:

A small partially burned gob refuse area with associated problem acreage was all that remained of this mine located in an agricultural area near Belleville. The moderately eroded gob pile averaged 1 foot in height with a 3 to 15 percent slope. Moderate overstory vegetation was present on the refuse. Potential for drainage to adjacent streams existed at the mine.

S025

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.0	6,700	30	134	870	4,000	2.9	19,300
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County St. Clair T 1S R 7W S 18

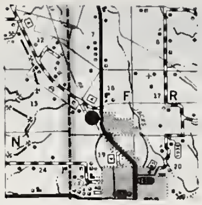
Mine Index S007 Opened 1905 Closed 1956

Environmental Locale Agricultural

Mined by Mulberry Hill Coal Co.

Owner Illinois Central Railroad

Gob Volume 13,000 Problem Area Index 37



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
8.0	8.0					

Description:

This mine, located in an agricultural area near Freeburg, consisted of problem acreage associated with two gob refuse areas. The largest gob pile was severely eroded and averaged 1 foot in height. Poor ground cover and sparse overstory vegetation were restricted to its perimeter. The smaller gob pile was severely eroded and averaged 2 feet in height; poor ground cover and moderate overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent streams existed at the mine.

County St. Clair T 1S R 7W S 20

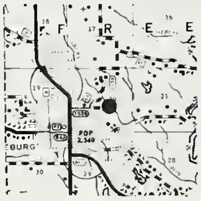
Mine Index L011 Opened 1933 Closed 1954

Environmental Locale Early Forest

Mined by Wildwood Coal Co.

Owner St. Pauls United Church

Gob Volume 100 Problem Area Index 17



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.0	1.0					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area near Freeburg. The gob pile had been graded and averaged less than 1 foot in height. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

S007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	2.5	2,000	590	260	370	12	940
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	2.6	3,200	3.0	150	180	35	2.2	4,700
Burned Gob #2	3.2	340	0.3	53	12	16	0.5	160
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County St. Clair T 2N R 8W S 10

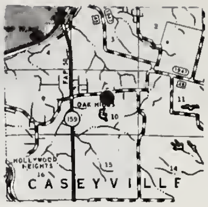
Mine Index U023 Opened 1905 Closed 1927

Environmental Locale Urban-Residential

Mined by Consolidated Coal Co.

Owner Private

Gob Volume 269,000 Problem Area Index 89



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
11.1	11.1					

Description:

This mine, located in an urban-residential area approximately 2 miles east of Caseyville, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile was 61 to 70 feet in height and barren of vegetation. A 4.6-acre tipple area at the mine site supported an excellent vegetative cover and was not a problem. Potential for drainage to adjacent streams existed at the mine.

County St. Clair T 2N R 8W S 17

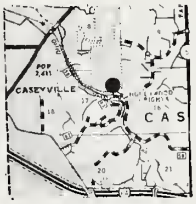
Mine Index L016 Opened 1927 Closed 1939

Environmental Locale Urban-Residential

Mined by New St. Clair Coal Co.

Owner Central & South Trust

Gob Volume 100 Problem Area Index 24



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
0.1	0.1					

Description:

A small partially burned gob refuse area with associated problem acreage was all that remained of this mine located in an urban-residential area near Caseyville. The moderately eroded gob pile averaged less than 1 foot in height and was barren of vegetation. Potential for drainage to adjacent streams existed at the mine.

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	1.9	9,100	52	159	2,000	2,100	23	34,000
Burned Gob	3.5	2,300	0.3	44	240	120	0.7	3,900
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County St. Clair T 2N R 8W S 25

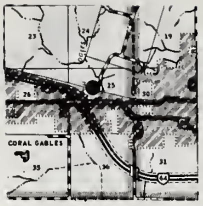
Mine Index U031 Opened --- Closed 1938

Environmental Locale Agricultural

Mined by Carbon Mine

Owner Private

Gob Volume 4,500 Problem Area Index 25



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
2.8	2.8					

Description:

This mine, located in an agricultural area near Fairview Heights, consisted of problem acreage associated with a partially burned gob refuse area. The moderately eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Moderate ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County St. Clair T 2N R 8W S 26

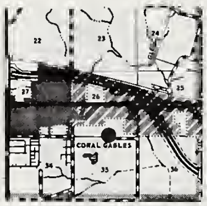
Mine Index S010 Opened 1903 Closed 1960

Environmental Locale Agricultural

Mined by Peabody Coal Co.

Owner Private

Gob Volume 1,860,000 Problem Area Index 360



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
171.3	96.3	75.0				

Description:

This mine, located in an agricultural area near Fairview Heights, consisted of problem acreage associated with a gob refuse area and three slurry refuse areas. The steeply sloped and severely eroded gob pile was 51 to 60 feet in height and barren of vegetation. All three of the slurry areas were severely eroded and barren of vegetation except for a few scattered willow trees. A carbon recovery operation had removed refuse from two of the slurry areas. A 6.0-acre water impoundment on the mine site was not a problem. Drainage was flowing into an adjacent stream.

NO DRAINAGE OR REFUSE DATA AVAILABLE

S010

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.4	9,100	6,700	220	1,500	97	4,800
Below Mine							
Gob Pools	2.4	8,900	5,300	200	1,500	61	6,000
Slurry Pools	3.8	3,000	95	2.6	0.4	3.2	810
Flooded Openings							
Flowing Openings							
On-site Impoundments	2.8	3,200	470	38	14	9.5	1,700
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	1.8	10,000	58	315	1,800	2,500	27	32,000
Burned Gob								
Slurry #1	2.8	2,800	1.5	503	48	120	10	4,000
#2	2.3	3,900	7.1	714	83	670	0.7	6,000
#3	2.4	3,900	6.0	311	130	640	7.0	6,100

County St. Clair T 2N R 8W S 32

Mine Index U036 Opened 1899 Closed ---

Environmental Locale Early Forest

Mined by St. Louis & O'Fallon Coal Co.

Owner Hydraulic Press Brick Co.

Gob Volume 100 Problem Area Index 16

Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.1	0.1					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area near Fairview Heights. The moderately sloped gob pile, barren of vegetation, had been graded and was less than 10 feet in height. Potential for drainage to adjacent streams existed at the mine.

County St. Clair T 2N R 8W S 33

Mine Index S013 Opened 1904 Closed 1954

Environmental Locale Agricultural

Mined by St. Louis & O'Fallon Coal Co.

Owner Private

Gob Volume 434,000 Problem Area Index 126

Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
34.9	26.9	6.5		1.5		

Description:

This mine, located in an agricultural area near Fairview Heights, consisted of problem acreage associated with a gob refuse area, a slurry refuse area, and an on-site water impoundment. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height and barren of vegetation. The slurry refuse area was also severely eroded and barren. A large portion of the slurry had been removed by a carbon recovery operation. Runoff from the gob and slurry areas had affected an on-site water impoundment. Drainage was flowing into an adjacent stream.

NO DRAINAGE OR REFUSE DATA AVAILABLE

S013

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.3	10,400	9,700	430	2,000	0.0	8,300
Below Mine	2.5	8,700	6,600	330	2,000	27	3,600
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	2.4	3,300	1,200	72	170	10	1,900
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.4	3,500	2.9	62	79	110	0.5	5,000
Burned Gob								
Slurry	7.7	2,300	Tr	207	0.2	Tr	0.9	3,700

County St. Clair T 2S R 7W S 35

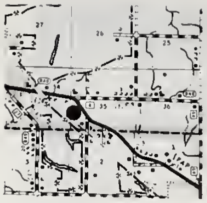
Mine Index L003 Opened 1930 Closed 1953

Environmental Locale Agricultural

Mined by Pep Coal Co.

Owner Private

Gob Volume 800 Problem Area Index 22



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.0	2.0					

Description:

This mine, located in an agricultural area near New Athens, consisted of problem acreage associated with a gob refuse area. The moderately eroded gob pile, barren of vegetation, had been graded and averaged less than 1 foot in height. In addition to the gob, coal was being stored on the refuse area. A 0.1-acre unpolluted water impoundment was also present. Potential for drainage to adjacent streams existed at the mine.

County St. Clair T 3S R 6W S 26

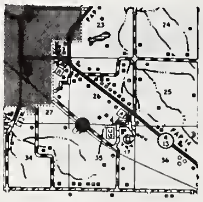
Mine Index S008 Opened 1885 Closed 1952

Environmental Locale Agricultural

Mined by Marissa Coal Co.

Owner Private

Gob Volume 1,100 Problem Area Index 22



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
4.0	4.0					

Description:

This mine, located in an agricultural area near Marissa, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile, utilized as a dump, had been graded and averaged less than 1 foot in height. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. A 0.4-acre unpolluted water impoundment was also present. Potential for drainage to adjacent streams existed at the mine.

L003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	6.0	2,700	39	2.3	26	0	120
Gob Pools	1.9	8,500	8,000	460	1,300	15	15,200
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

S008

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	4.2	820	185	13	13	0.0	310
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.0	3,900	45	5.6	11	0.0	130
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.9	2,700	1.1	188	61	4.8	1.2	4,000
Burned Gob								
Slurry								

County St. Clair T 3S R 6W S 28

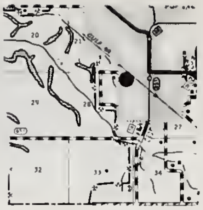
Mine Index U239 Opened --- Closed 1914

Environmental Locale Agricultural

Mined by Egypt Coal Co.

Owner Private

Gob Volume 5,200 Problem Area Index 27



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
6.4	6.4					

Description:

This mine, located in an agricultural area near Marissa, consisted of problem acreage associated with a partially burned gob refuse area. The severely eroded gob pile had been graded and averaged less than 1 foot in height. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. A 0.3-acre water impoundment, utilized as a dump, was also present. Potential for drainage to adjacent streams existed at the mine.

U239

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	3.1	2,300	225	1.0	2.2	5.8	1,600
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	2,500	1.1	48	54	10	1.7	3,700
Burned Gob	3.6	2,400	1.3	26	110	0.6	1.5	4,100
Slurry								

County Tazewell T 24N R 4W S 6

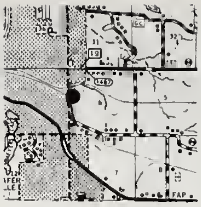
Mine Index U001 Opened --- Closed 1925

Environmental Locale Urban-Residential

Mined by Tazewell Coal Co.

Owner Private

Gob Volume 2,900 Problem Area Index 26



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
0.9	0.9					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an urban-residential area near Pekin. The gob pile, which had been graded, averaged 2 feet in height and was barren of vegetation. Potential for drainage to adjacent streams was not observed.

County Tazewell T 25N R 4W S 7

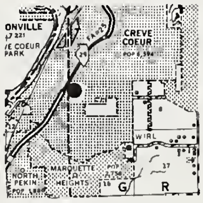
Mine Index U007 Opened --- Closed ---

Environmental Locale Early Forest

Mined by Unknown

Owner Private

Gob Volume 2,900 Problem Area Index 18



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
0.9	0.9					

Description:

A small partially burned gob refuse area with associated problem acreage was all that remained of this mine located in a forested area in Creve Coeur. The gob pile had been graded and averaged 2 feet in height. Sparse overstory vegetation was scattered on the refuse. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Tazewell T 25N R 5W S 24

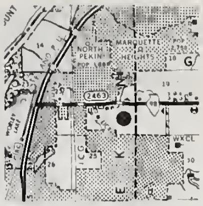
Mine Index L002 Opened 1932 Closed 1956

Environmental Locale Early Forest

Mined by Lakeside Coal Co., Inc.

Owner Pekin Park District

Gob Volume 1,000 Problem Area Index 19



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.8	0.6		0.2			

Description:

This mine, located in a forested area near Pekin, consisted of problem acreage associated with a gob refuse area and a tipple area. The gob pile had been graded and was being utilized as a parking lot for a park. Buildings and foundations remained on the tipple area, which supported a good vegetative cover. Potential for drainage to adjacent streams existed at the mine.

L002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	8.2	800	0	0.2	0.9	0.0	370
General Runoff							
Below Mine	8.1	850	1	0.1	0.4	0.0	600
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Vermilion T 18N R 11W S 3

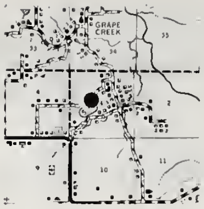
Mine Index U200 Opened --- Closed ---

Environmental Locale Forest

Mined by Unknown

Owner Private

Gob Volume None Problem Area Index 55



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.0						

Description:

An open shaft located on a 0.1-acre excellently vegetated tipple area was the only problem at this mine site. Continuous drainage was flowing from the shaft into an adjacent stream.

County Vermilion T 18N R 11W S 5

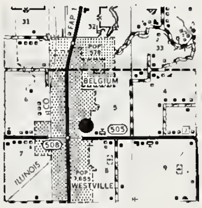
Mine Index U155 Opened 1902 Closed 1924

Environmental Locale Urban-Residential

Mined by United States Fuel Co.

Owner Private

Gob Volume 6,800 Problem Area Index 29



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
2.1	2.1					

Description:

This mine, located in an urban-residential area in Westville, consisted of problem acreage associated with an extensively burned gob refuse area. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height. Good ground cover vegetation was uniformly distributed on the refuse along with a few trees. Potential for drainage to adjacent streams was not observed.

U200

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.8	740	2	0.2	0.3	0.0	830
General Runoff							
Below Mine	7.4	950	16	0.1	2.4	0.0	600
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Vermilion T 18N R 11W S 9

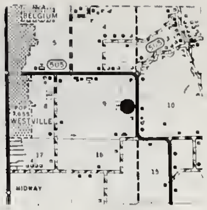
Mine Index U159 Opened 1897 Closed 1908

Environmental Locale Agricultural

Mined by Nimrod Coal Co.

Owner Private

Gob Volume 15,000 Problem Area Index 32



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.9	1.9					

Description:

This mine, located in an agricultural area approximately 1.5 miles east of Westville, consisted of problem acreage associated with a gob refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height and barren of vegetation. Potential for drainage to adjacent streams existed at the mine.

County Vermilion T 18N R 12W S 3

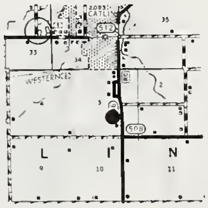
Mine Index U140 Opened 1918 Closed 1931

Environmental Locale Agricultural

Mined by Taylor-English Coal Co.

Owner Private

Gob Volume 32,000 Problem Area Index 36



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
2.0	2.0					

Description:

This mine, located in an agricultural area approximately 1 mile south of Catlin, consisted of problem acreage associated with an extensively burned gob refuse area. The steeply sloped and severely eroded gob pile was 41 to 50 feet in height. Moderate ground cover and overstory vegetation were restricted to the lower slope of the refuse pile. A 0.5-acre tipple area supporting an excellent vegetative cover was also present. Potential for drainage to adjacent streams existed at the mine.

U159

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	3.2	2,200	230	3.3	31	0.0	1,600
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.7	2,500	0.4	39	15	1.4	27	3,800
Burned Gob	5.1	1,850	0.1	6	0.4	0.2	52	2,900
Slurry								

U140

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools	6.2	2,300	9	0.4	1.3	1.9	2,000
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	4,800	8.4	112	630	15	80	9,800
Burned Gob	3.9	2,300	0.6	7	38	0.3	0.7	3,900
Slurry								

County Vermilion T 18N R 12W S 15

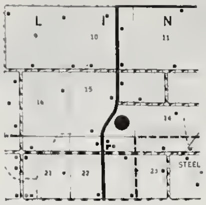
Mine Index S002 Opened 1904 Closed 1946

Environmental Locale Agricultural

Mined by Chicago & Harrisburg Coal Co.

Owner United Shale, Inc.

Gob Volume 2,400,000 Problem Area Index 335



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
89.7	79.2	10.5				

Description:

This mine, located in an agricultural area approximately 4 miles southwest of Westville, consisted of problem acreage associated with two gob refuse areas and two slurry refuse areas. The largest partially burned gob pile was steeply sloped, severely eroded, and 61 to 70 feet in height. The second partially burned gob pile, utilized as a dump, was also steeply sloped and severely eroded, and was 81 to 90 feet in height. Sparse ground cover vegetation was restricted to the lower slope of the gob pile; a few trees were present near the top of the refuse. Both of the slurry areas were holding surface water and were barren of vegetation. Potential for drainage to adjacent streams existed at the mine.

County Vermilion T 18N R 12W S 26

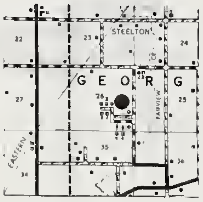
Mine Index S001 Opened 1916 Closed 1947

Environmental Locale Agricultural

Mined by United States Coal & Coke Co.

Owner United States Steel Co.

Gob Volume 565,000 Problem Area Index 105



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
23.4	17.5		5.9			

Description:

This mine, located in an agricultural area approximately 2 miles northwest of Georgetown, consisted of problem acreage associated with an extensively burned gob refuse area and a tipple area. The steeply sloped and severely eroded gob pile was 81 to 90 feet in height. Poor ground cover and moderate overstory vegetation were restricted to the lower slope of the refuse pile. Foundations remained on the tipple area which supported an excellent vegetative cover. Potential for drainage to adjacent streams existed at the mine.

S002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	2.7	5,100	2,600	210	320	27	5,800
Slurry Pools	2.9	4,900	990	100	500	16	2,600
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	2.8	2,900	2.6	66	130	49	14	4,200
#2	2.3	6,000	16	56	830	790	91	12,900
Burned Gob	5.5	140	Tr	1	0.1	0.2	0.4	120
Slurry #1	3.0	3,900	5.2	273	320	5.8	153	7,700
#2	2.1	6,200	17	204	160	2,200	40	10,200

S001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.7	300	40	0.3	0.6	0.0	420
Below Mine							
Gob Pools	3.5	1,000	150	16	11	1.7	410
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	1,900	0.9	82	34	7.3	2.8	1,900
Burned Gob	3.6	2,600	1.3	11	93	3.3	0.7	4,300
Slurry								

County Vermilion T 19N R 11W S 17

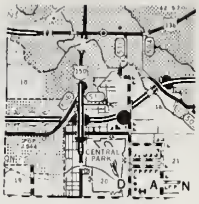
Mine Index U084 Opened --- Closed 1937

Environmental Locale Forest

Mined by Bennett Mine

Owner Private

Gob Volume 200 Problem Area Index 17



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area near Danville. The severely eroded gob pile averaged less than 1 foot in height. Moderate ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Vermilion T 19N R 11W S 17

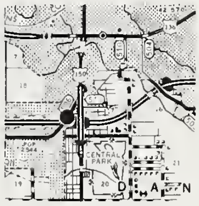
Mine Index U092 Opened --- Closed 1888

Environmental Locale Urban-Residential

Mined by Consolidated Coal Co. of St. Louis

Owner Private

Gob Volume 9,000 Problem Area Index 36



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
2.8	2.8					

Description:

This mine, located in an urban-residential area near Danville, consisted of problem acreage associated with a partially burned gob refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height and barren of vegetation. Potential for drainage to adjacent streams existed at the mine.

U084

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.6	1,380	16	0.0	1.6	0.5	540
General Runoff							
Below Mine	7.5	1,490	26	0.1	4.2	0.4	1,600
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	2,600	0.8	95	21	2.5	0.8	3,800
Burned Gob								
Slurry								

U092

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	8.4	1,020	0	0.2	0.7	0.0	500
General Runoff							
Below Mine	8.5	1,130	0	0.2	0.9	0.0	220
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.2	5,500	11	132	620	200	14	8,700
Burned Gob	3.7	430	0.2	12	7.2	0.9	0.5	400
Slurry								

County Vermilion T 19N R 11W S 19

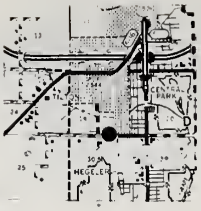
Mine Index L006 Opened 1933 Closed 1941

Environmental Locale Urban-Industrial

Mined by M. & M. Coal Co.

Owner 2nd Natl. Bank

Gob Volume 4,000 Problem Area Index 18



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
2.5	2.5					

Description:

This mine, located in an urban-industrial area in Tilton, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile, part of which had been removed, averaged less than 1 foot in height. Good ground cover vegetation was uniformly distributed on the refuse along with a few scattered trees. Potential for drainage to adjacent streams existed at the mine.

County Vermilion T 19N R 11W S 19

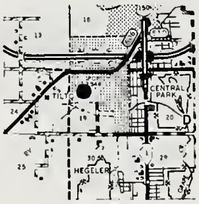
Mine Index S004 Opened 1920 Closed 1941

Environmental Locale Urban-Residential

Mined by Tilton Mining Co.

Owner Private

Gob Volume 3,600 Problem Area Index 35



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
4.4	4.4					

Description:

This mine, located in an urban-residential area in Tilton, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile, part of which had been removed, was 11 to 20 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were restricted to the perimeter. Potential for drainage to adjacent streams existed at the mine.

L006

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	1,600	1.2	118	36	11	8.6	1,400
Burned Gob								
Slurry								

S004

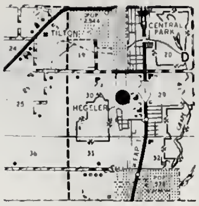
Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	3.0	2,000	460	34	110	1.9	1,300
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.1	6,000	13	125	550	660	8.6	9,100
Burned Gob	2.2	7,800	42	18	2,400	2,000	43	25,000
Slurry								

County Vermilion T 19N R 11W S 30
Mine Index L220 Opened 1945 Closed 1975
Environmental Locale Agricultural
Mined by V-Day Coal Co.
Owner Private
Gob Volume 168,000 Problem Area Index 75



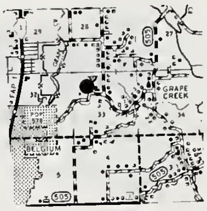
Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
13.5	10.4		3.1			

Description:

This mine, located in an agricultural area near Tilton, consisted of problem acreage associated with a partially burned gob refuse area and a tipple area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height and barren of vegetation. Buildings, foundations, and a 0.5-mile gob road remained on the tipple area, which was also barren of vegetation. Potential for drainage to adjacent streams existed at the mine.

County Vermilion T 19N R 11W S 33
Mine Index U124 Opened 1917 Closed ---
Environmental Locale Rural-Residential
Mined by Mons. Olson
Owner Private
Gob Volume None Problem Area Index 59



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.4						0.4

Description:

An off-site aquatic area which had been affected by continuous seepage from old mine works was all that remained at this mine. It was located in a rural-residential area approximately 2 miles south of Danville.

L220

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	6.7	1,380	40	0.4	380	1.2	620
Gob Pools	2.4	9,100	8,400	450	450	50	9,400
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	1.8	9,800	28	223	380	3,600	4.5	17,900
Burned Gob	4.3	440	0.3	4	11	0.2	1.1	440
Slurry								

U124

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	7.0	1,050	65	0.0	280	0.0	110
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	7.0	1,090	100	0.0	0.9	0.0	370
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Vermilion T 19N R 12W S 8

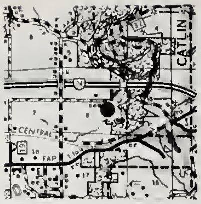
Mine Index U017 Opened --- Closed ---

Environmental Locale Forest

Mined by United Electric Coal Co.

Owner State of Illinois, Kickapoo State Park

Gob Volume None Problem Area Index 27



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.0						

Description:

All that remained of this mine, located in a forested area of Kickapoo State Park, was a 0.2-acre tipple area supporting an excellent vegetative cover. Two open shafts on the tipple area constituted a hazard.

County Vermilion T 19N R 12W S 10

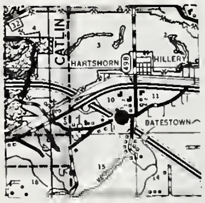
Mine Index L010 Opened 1922 Closed 1939

Environmental Locale Urban-Residential

Mined by M. & B. Coal Co.

Owner Private

Gob Volume 700 Problem Area Index 26



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.8	0.8					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an urban-residential area approximately 2 miles west of Danville. The uneroded gob pile averaged less than 1 foot in height. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

L010

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.4	290	3	0.2	0.4	0.0	390
General Runoff							
Below Mine	7.2	310	6	0.1	0.4	0.0	110
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	870	0.4	267	1.2	3.2	0.4	700
Burned Gob								
Slurry								

County Vermilion T 19N R 12W S 15

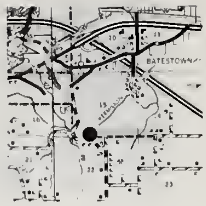
Mine Index L013 Opened 1936 Closed 1952

Environmental Locale Early Forest

Mined by Anderson Coal Co.

Owner Private

Gob Volume 1,300 Problem Area Index 19



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
1.6	1.6					

Description:

This mine, located in a forested area approximately 4 miles southwest of Danville, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile averaged less than 1 foot in height with a 3 to 15 percent slope. Good ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Vermilion T 19N R 12W S 20

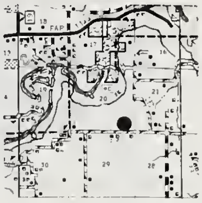
Mine Index L034 Opened 1934 Closed 1942

Environmental Locale Forest

Mined by Pearson Coal Co.

Owner Private

Gob Volume 3,900 Problem Area Index 22



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
1.6	1.6					

Description:

This mine, located in a forested area approximately 6 miles southwest of Danville, consisted of problem acreage associated with a partially burned gob refuse area. The severely eroded gob pile averaged less than 1 foot in height. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

L013

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.8	790	2	0.2	0.7	0.0	500
General Runoff							
Below Mine	7.8	800	3	0.1	1.1	0.0	440
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.7	2,500	3.6	127	220	39	9.7	3,800
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Vermilion T 19N R 12W S 21

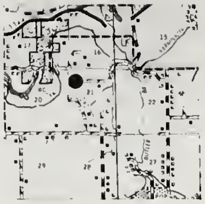
Mine Index L066 Opened 1925 Closed 1947

Environmental Locale Forest

Mined by Sharon Coal Co.

Owner Meadowlark Farms

Gob Volume 1,200 Problem Area Index 34



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
1.5	1.5					

Description:

This mine, located in a forested area approximately 5 miles southwest of Danville, consisted of problem acreage associated with a partially burned gob refuse area. The severely eroded gob pile averaged less than 1 foot in height with a 3 to 15 percent slope. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. An open shaft at the mine constituted a hazard. Potential for drainage to adjacent streams existed at the mine.

County Vermilion T 19N R 12W S 22

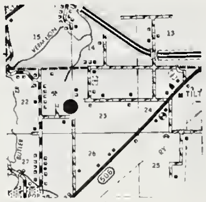
Mine Index L011 Opened 1932 Closed 1943

Environmental Locale Forest

Mined by L. & S. Coal Co.

Owner Meadowlark Farms

Gob Volume 1,200 Problem Area Index 20



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
1.5	1.5					

Description:

This mine, located in a forested area approximately 4 miles southwest of Danville, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

L066

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	6.9	310	10	0.4	0.9	0.0	160
General Runoff							
Below Mine	7.1	490	5	0.3	4.1	0.0	200
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.4	3,900	3.0	215	94	33	0.7	5,000
Burned Gob	3.8	500	0.3	16	12	0.7	0.3	530
Slurry								

L011

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	7.0	1,110	6	0.1	0.8	0.0	380
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	1,900	0.5	355	2.1	5.8	0.5	2,200
Burned Gob								
Slurry								

County Vermilion T 19N R 12W S 22

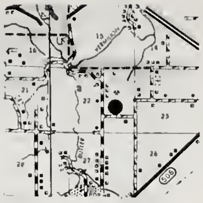
Mine Index L185 Opened 1938 Closed 1950

Environmental Locale Forest

Mined by Cessna Coal Co.

Owner Meadowlark Farms

Gob Volume 3,400 Problem Area Index 22



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
1.4	1.4					

Description:

This mine, located in a forested area approximately 4 miles southwest of Danville, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Vermilion T 19N R 12W S 22

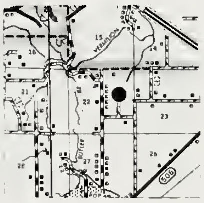
Mine Index L022 Opened 1932 Closed 1971

Environmental Locale Forest

Mined by Deep Valley Coal Co.

Owner Meadowlark Farms

Gob Volume 2,000 Problem Area Index 62



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
3.5	2.5		1.0			

Description:

This mine, located in a forested area approximately 4 miles southwest of Danville, consisted of problem acreage associated with a gob refuse area and a tipple area. The moderately sloped and severely eroded gob pile, utilized as a dump, was 11 to 20 feet in height. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Buildings, machinery, and an open shaft remained on the tipple area, which supported a moderate vegetative cover and was utilized as a dump. Continuous drainage was flowing from the open shaft into an adjacent stream.

L185

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.4	990	11	0.1	1.0	0.0	910
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	2,200	1.4	278	27	17	0.6	2,300
Burned Gob								
Slurry								

L022

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	6.8	990	8	0.3	0.8	0.0	420
General Runoff	7.1	1,100	8	0.1	0.7	0.6	620
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	6.7	2,200	100	0.4	320	1.0	1,000
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial	6.9	2,100	60	0.4	3.2	0.0	830

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	570	0.4	193	3.1	6.4	0.4	250
Burned Gob								
Slurry								

County Vermilion T 19N R 12W S 22

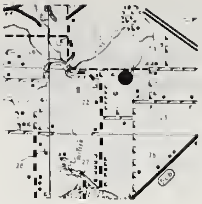
Mine Index U172 Opened --- Closed ---

Environmental Locale Forest

Mined by Unknown

Owner Meadowlark Farms

Gob Volume 400 Problem Area Index 18



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.8	0.8					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a forested area approximately 3 miles southwest of Danville. The moderately eroded gob pile averaged less than 1 foot in height. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Vermilion T 19N R 12W S 22

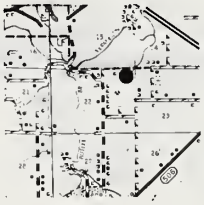
Mine Index L027 Opened 1932 Closed 1939

Environmental Locale Forest

Mined by Thompson Hollow Mine

Owner Meadowlark Farms

Gob Volume None Problem Area Index 55



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.0	0.0					

Description:

An open shaft located on a 0.1-acre excellently vegetated tipple area was the only problem at this mine site. Continuous drainage was flowing from the shaft into an adjacent stream.

U172

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.2	5,300	6.9	310	120	520	0.7	6,600
Burned Gob								
Slurry								

L027

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	7.5	1,600	7	0.5	30	0.0	880
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	6.5	5,800	40	0.3	590	0.0	6,600
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Vermilion T 19N R 12W S 22

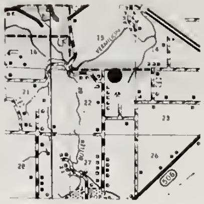
Mine Index L016 Opened 1935 Closed 1959

Environmental Locale Forest

Mined by B-10 Coal Co.

Owner Meadowlark Farms

Gob Volume 3,900 Problem Area Index 23



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
2.4	2.4					

Description:

This mine, located in a forested area approximately 4 miles southwest of Danville, consisted of problem acreage associated with a partially burned gob refuse area. The severely eroded gob pile was 11 to 20 feet in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Vermilion T 19N R 12W S 22

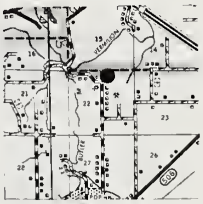
Mine Index L209 Opened 1941 Closed 1954

Environmental Locale Early Forest

Mined by J. & M. Coal Co.

Owner Meadowlark Farms

Gob Volume 900 Problem Area Index 32



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
2.2	2.2					

Description:

This mine, located in a forested area approximately 4 miles southwest of Danville, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile, utilized as a dump, averaged less than 1 foot in height and was barren of vegetation. An open shaft at the mine site constituted a hazard. Potential for drainage to adjacent streams was not observed.

L016

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.6	1,310	5	0.1	1.0	0.0	420
General Runoff							
Below Mine	7.7	660	2	0.3	0.6	0.0	590
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.1	1,800	0.6	314	5.6	13	0.4	2,400
Burned Gob	3.6	2,200	0.8	12	44	1.2	1.4	4,100
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Vermilion T 19N R 12W S 23

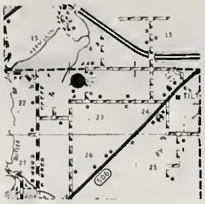
Mine Index L005 Opened 1929 Closed 1945

Environmental Locale Forest

Mined by W. & W. Coal Co.

Owner Meadowlark Farms

Gob Volume 1,500 Problem Area Index 21



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.8	1.8					

Description:

This mine, located in a forested area approximately 3 miles southwest of Danville, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height. Sparse ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Vermilion T 19N R 12W S 27

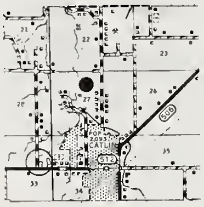
Mine Index L020 Opened 1932 Closed 1949

Environmental Locale Forest

Mined by Tilton Mining Co.

Owner Meadowlark Farms

Gob Volume 1,600 Problem Area Index 21



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
3.1	3.1					

Description:

This mine, located in a forested area near Catlin, consisted of problem acreage associated with a gob refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

L005

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.5	1,590	10	0.1	1.6	0.0	430
General Runoff							
Below Mine	7.5	1,610	13	0.1	1.5	0.0	640
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	2,600	1.6	216	61	16	0.4	3,000
Burned Gob	3.7	1,300	0.4	17	17	0.6	0.2	1,700
Slurry								

L020

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	2.2	4,000	1,700	47	3.5	0.3	1,300
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.1	6,800	20	118	400	2,200	0.8	12,900
Burned Gob								
Slurry								

County Vermilion T 19N R 12W S 30

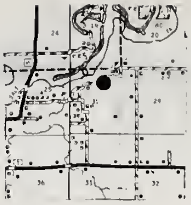
Mine Index L007 Opened 1930 Closed 1952

Environmental Locale Agricultural

Mined by Central Coal Co.

Owner Private

Gob Volume 9,700 Problem Area Index 33



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
10.5	3.0		7.5			

Description:

This mine, located in an agricultural area approximately 3 miles northwest of Catlin, consisted of problem acreage associated with a partially burned gob refuse area and a tipple area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height and barren of vegetation. Buildings, foundations, and a 0.4-mile paved road remained on the tipple area, which supported a good vegetative cover. Potential for drainage to adjacent streams existed at the mine.

County Vermilion T 19N R 13W S 16

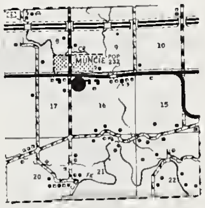
Mine Index U005 Opened 1893 Closed 1913

Environmental Locale Rural-Residential

Mined by Bushong Brothers

Owner Private

Gob Volume 6,100 Problem Area Index 28



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.7	0.7					

Description:

This mine, located in a rural-residential area near Muncie, consisted of problem acreage associated with a partially burned gob refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height and barren of vegetation. Potential for drainage to adjacent streams existed at the mine.

L007

Drainage Samples

Sample Type		pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	#1	7.9	760	4	0.2	0.4	0.0	620
	#2	7.3	410	5	0.7	6.6	0.0	300
Below Mine	#1	7.9	790	3	0.3	1.0	0.0	320
	#2	2.7	2,200	415	18	9.0	0.0	1,500
Slurry Pools								
Flooded Openings								
Flowing Openings								
On-site Impoundments								
Off-site Aquatic								
Off-site Terrestrial								

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.4	3,900	2.6	291	45	9.2	0.4	4,400
Burned Gob	4.1	220	0.2	8	3.7	0.5	0.3	180
Slurry								

U005

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.0	7,100	16	247	310	1,700	15	11,900
Burned Gob	4.1	260	0.1	12	3.3	1.3	0.8	230
Slurry								

County Vermilion T 19N R 13W S 34

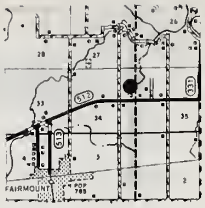
Mine Index U008 Opened --- Closed 1919

Environmental Locale Early Forest

Mined by Fairmount Coal Co.

Owner Private

Gob Volume 5,800 Problem Area Index 21



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.2	1.2					

Description:

This mine, located in a forested area approximately 1 mile northeast of Fairmount, consisted of problem acreage associated with a partially burned gob refuse area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

U008

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.5	620	5	0.2	0.2	0.0	410
General Runoff	3.4	360	70	1.4	15	0.0	240
Below Mine	7.7	790	1	0.2	0.3	0.0	630
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.9	900	0.7	140	18	5.4	1.2	560
Burned Gob	3.8	680	0.2	12	15	0.4	1.0	780
Slurry								

County Warren T 12N R 2W S 14

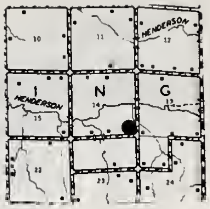
Mine Index U014 Opened -- Closed --

Environmental Locale Agricultural

Mined by Unknown

Owner Private

Gob Volume NONE Problem Area Index 45



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.4					1.4	

Description:

Surface disturbance at this mine site, located in an agricultural area approximately 3 miles south of Alexis, was limited to an off-site terrestrial area. This area was receiving continuous drainage from the underground mine works.

U014

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	8.2	650	0	0.2	0.7	0.0	330
General Runoff							
Below Mine	7.0	1,050	20	0.3	4.6	1.3	480
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	3.0	2,700	190	1.7	31	8.6	1,400
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Washington T 2S R 3W S 13

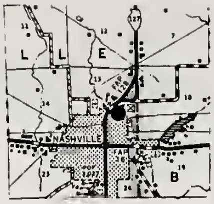
Mine Index S002 Opened 1880 Closed 1939

Environmental Locale Early Forest

Mined by Clarkson Coal & Mining Co.

Owner C.E. Williamson Mnf. Co.

Gob Volume 15,000 Problem Area Index 32



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
4.7	1.2	3.5				

Description:

This mine, located in a forested area near Nashville, consisted of problem acreage associated with a partially burned gob refuse area and a slurry refuse area. The moderately sloped and eroded gob pile was 11 to 20 feet in height. Poor ground cover vegetation was scattered on the refuse, and heavy overstory vegetation was uniformly distributed on the gob. Sparse vegetation was restricted to the perimeter of the uneroded slurry area. Potential for drainage to adjacent streams existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County White T 6S R 8E S 21

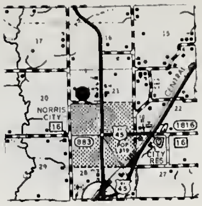
Mine Index S001 Opened 1905 Closed 1940

Environmental Locale Early Forest

Mined by Deep Vein Number 6 Coal Co.

Owner Private

Gob Volume NONE Problem Area Index 28



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
0.0						

Description:

All that remained of this mine was an unsealed shaft which constituted a hazard. It was located in a forested area near Norris City.

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Will T 32N R 9E S 4

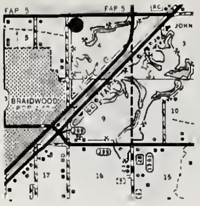
Mine Index U019 Opened -- Closed 1928

Environmental Locale Herbs-Shrubs-Trees

Mined by Skier Bros.

Owner Lakeland Bluffs, Inc.

Gob Volume 1,500 Problem Area Index 19



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
3.1	3.1					

Description:

This mine, located approximately 1 mile north of Braidwood, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile, part of which was removed, averaged less than 1 foot in height with a 3 to 15 percent slope. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Will T 32N R 9E S 5

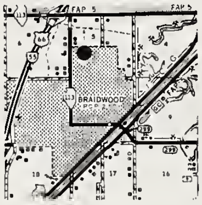
Mine Index U012 Opened -- Closed 1880

Environmental Locale Agricultural

Mined by Chicago, Wilmington, & Vermilion C.C.

Owner Private

Gob Volume 40,000 Problem Area Index 39



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
3.1	3.1					

Description:

This mine, located in an agricultural area near Braidwood, consisted of problem acreage associated with a gob refuse area. The steeply sloped and severely eroded gob pile was 41 to 50 feet in height. Poor ground cover was scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

U019

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	6.4	1,110	6	0.1	0.6	0.0	590
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.0	1,700	0.3	8	12	0.4	23	2,500
Burned Gob								
Slurry								

U012

Drainage Samples

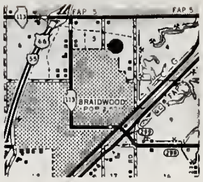
Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.3	2,200	0.2	7	2.1	0.2	14	3,200
Burned Gob								
Slurry								

County Will T 32N R 9E S 5

Mine Index U015 Opened 1902 Closed --



Environmental Locale Agricultural

Mined by Murphy, Keenan, & Co.

Owner Private

Gob Volume 35,000 Problem Area Index 36

Problem Acreage

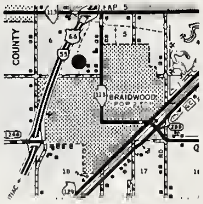
Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
2.7	2.7					

Description:

This mine, located in an agricultural area near Braidwood, consisted of problem acreage associated with a gob refuse area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height. Excellent ground cover and sparse overstory vegetation were restricted to the lower slope of the refuse. Potential for drainage to adjacent streams existed at the mine.

County Will T 32N R 9E S 6

Mine Index U011 Opened -- Closed 1887



Environmental Locale Agricultural

Mined by Chicago, Wilmington & Vermilion C.C.

Owner Private

Gob Volume 49,000 Problem Area Index 43

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
5.1	5.1					

Description:

This mine, located in an agricultural area near Braidwood, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height. Poor ground cover was restricted to the lower slope of the refuse. Potential for drainage to adjacent streams existed at the mine.

U015

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.0	2,100	0.4	5	17	0.2	28	3,400
Burned Gob								
Slurry								

U011

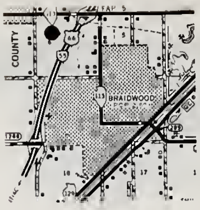
Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.6	2,600	0.8	6	43	0.7	73	4,200
Burned Gob	6.4	1,550	Tr	3	0.3	0.1	2.9	2,500
Slurry								

County Will T 32N R 9E S 6



Mine Index U009 Opened --- Closed ---

Environmental Locale Agricultural

Mined by Chicago, Wilmington & Vermilion C.C.

Owner Private

Gob Volume 19,000 Problem Area Index 32

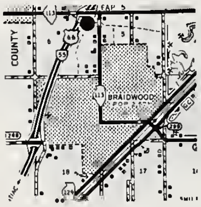
Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
2.4	2.4					

Description:

This mine, located in an agricultural area approximately 0.5 mile northwest of Braidwood, consisted of problem acreage associated with a gob refuse area. The steeply sloped and severely eroded gob pile was 11 to 20 feet in height. Moderate ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Will T 32N R 9E S 6



Mine Index U010 Opened 1880 Closed 1890

Environmental Locale Agricultural

Mined by Chicago, Wilmington & Vermilion C.C.

Owner Private

Gob Volume 14,000 Problem Area Index 29

Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.1	1.1					

Description:

This mine, located in an agricultural area approximately 0.5 mile north of Braidwood, consisted of problem acreage associated with a gob refuse area. The steeply sloped and severely eroded gob pile, part of which was removed, was 21 to 30 feet in height. Good ground cover vegetation was uniformly distributed on the refuse, and moderate overstory vegetation was scattered on the gob. Potential for drainage to adjacent streams existed at the mine.

U009

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	7.3	380	4	0.9	62	0.0	280
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.9	2,700	0.4	27	15	0.8	8.6	4,500
Burned Gob								
Slurry								

U010

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	6.7	880	14	0.1	1.2	0.0	250
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	8.0	310	Tr	6	0.1	0.7	0.1	220
Burned Gob								
Slurry								

County Will T 32N R 9E S 7

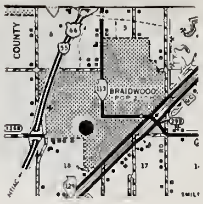
Mine Index U023 Opened -- Closed --

Environmental Locale Herbs-Shrubs-Trees

Mined by Eureka Coal Co.

Owner Private

Gob Volume 4,800 Problem Area Index 21



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
1.5	1.5					

Description:

This mine, located in Braidwood, consisted of problem acreage associated with a partially burned gob refuse area. The moderately sloped and severely eroded gob pile had been graded and was 11 to 20 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams existed at the mine.

County Will T 32N R 9E S 7

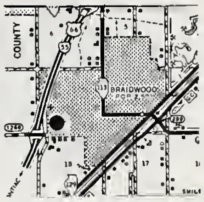
Mine Index U022 Opened -- Closed --

Environmental Locale Urban-Residential

Mined by Eureka Coal Co.

Owner Private

Gob Volume 2,600 Problem Area Index 28



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
0.8	0.8					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in an urban-residential area in Braidwood. The severely eroded gob pile, part of which was removed, averaged 2 feet in height with a 3 to 15 percent slope. Good ground cover and moderate overstory vegetation were uniformly distributed on the refuse. Potential for drainage to adjacent streams existed at the mine.

U023

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	4.8	200	20	0.2	1.1	2.3	86
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.6	2,000	0.7	69	30	0.6	26	3,100
Burned Gob								
Slurry								

U022

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	6.2	700	9	23	750	0.0	300
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.3	890	0.4	36	11	1.4	5.2	970
Burned Gob								
Slurry								

County Will T 32N R 9E S 7

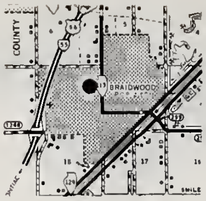
Mine Index U021 Opened -- Closed 1888

Environmental Locale Urban-Residential

Mined by Chicago, Wilmington, & Vermilion C.C.

Owner Private

Gob Volume 15,000 Problem Area Index 37



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
1.2	1.2					

Description:

This mine, located in an urban-residential area in Braidwood, consisted of problem acreage associated with a gob refuse area. The steeply sloped and severely eroded gob pile was 11 to 20 feet in height. Sparse ground cover and overstory vegetation were restricted to the refuse perimeter. Another 2.0-acre gob pile supported an excellent vegatative cover and was not considered a problem. Potential for drainage to adjacent streams existed at the mine.

County Will T 32N R 9E S 17

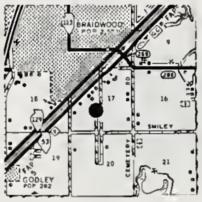
Mine Index U031 Opened -- Closed --

Environmental Locale Agricultural

Mined by Eureka Coal Co.

Owner Peabody Coal Co.

Gob Volume 14,000 Problem Area Index 83



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
36.5	17.0	15.2	2.9			1.4

Description:

This mine, located in an agricultural area near Braidwood, consisted of problem acreage associated with a gob refuse area, a slurry refuse area, a tipple area, and an off-site aquatic area. The severely eroded gob pile averaged less than 1 foot in height. Sparse ground cover and overstory vegetation were scattered on the refuse. The severely eroded slurry area held surface water and was barren of vegetation. Buildings and a 0.5-mile gob road remained on the tipple area, which supported a good vegetative cover. An open shaft on the tipple area constituted a hazard. Runoff from the mine area had affected an adjacent off-site aquatic area, and potential for drainage to adjacent streams existed at the mine.

U021

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	7.0	600	4	0.2	0.5	0.0	210
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.1	560	0.1	22	2.1	0.4	4.4	680
Burned Gob	5.7	130	Tr	7	0.1	0.2	0.3	63
Slurry								

U031

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools	2.6	3,700	620	49	70	3.1	2,200
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	1.8	7,000	14	157	55	320	0.2	4,000
Burned Gob								
Slurry	3.6	220	0.2	209	0.2	1.0	0.3	140

County Will T 32N R 9E S 18

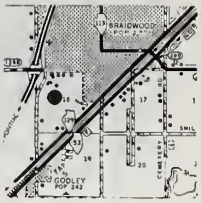
Mine Index U029 Opened 1890 Closed --

Environmental Locale Agricultural

Mined by Eureka Coal Co.

Owner Private

Gob Volume 1,500 Problem Area Index 22



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
0.9	0.9					

Description:

This mine, located in an agricultural area near Braidwood, consisted of problem acreage associated with a small gob refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Sparse ground cover was restricted to the refuse perimeter. Potential for drainage to adjacent streams existed at the mine.

County Will T 32N R 9E S 19

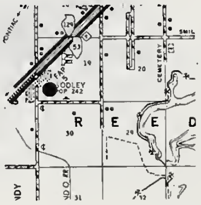
Mine Index U032 Opened -- Closed --

Environmental Locale Early Forest

Mined by Chicago, Wilmington, & Vermilion C.C.

Owner Private

Gob Volume 29,000 Problem Area Index 34



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.8	1.8					

Description:

This mine, located in a forested area near Godley, consisted of problem acreage associated with a partially burned gob refuse area. The steeply sloped and severely eroded gob pile was 51 to 60 feet in height. Sparse ground cover was restricted to the lower slope of the refuse pile along with a few scattered trees. Potential for drainage to adjacent streams existed at the mine.

U029

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.5	2,100	1.3	34	35	0.6	41	3,700
Burned Gob								
Slurry								

U032

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.8	1,000	0.3	10	11	1.0	6.6	1,300
Burned Gob	4.0	1,700	0.3	6	8.1	0.1	6.1	2,500
Slurry								

County Will T 32N R 9E S 31

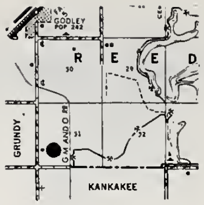
Mine Index U035 Opened 1905 Closed 1918

Environmental Locale Early Forest

Mined by Wilmington Coal Mining & Mng. Co.

Owner Peabody Coal Co.

Gob Volume 45,000 Problem Area Index 55



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
3.2	2.8		0.4			

Description:

This mine, located in a forested area approximately 3.5 miles south of Braidwood, consisted of problem acreage associated with a gob refuse area and a tipple area. The steeply sloped and severely eroded gob pile was 71 to 80 feet in height. Sparse ground cover and overstory vegetation were restricted to the refuse perimeter. An open air shaft on the tipple area constituted a hazard. Potential for drainage to adjacent streams existed at the mine.

County Will T 33N R 9E S 31

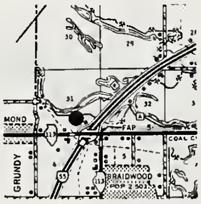
Mine Index U003 Opened 1890 Closed 1893

Environmental Locale Rural-Residential

Mined by Chicago, Wilmington & Vermilion C.C.

Owner Private

Gob Volume 3,200 Problem Area Index 25



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
0.2	0.2					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a rural-residential area approximately 1 mile north of Braidwood. The steeply sloped and severely eroded gob pile was 11 to 20 feet in height with poor ground cover vegetation restricted to the refuse perimeter. Potential for drainage to adjacent streams existed at the mine.

U035

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.6	3,200	1.5	25	77	0.8	33	5,700
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Will T 33N R 9E S 32

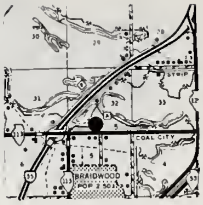
Mine Index U007 Opened -- Closed 1916

Environmental Locale Agricultural

Mined by Murphy, Linskey, & Kasher

Owner Private

Gob Volume 45,000 Problem Area Index 42



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
2.8	2.8					

Description:

This mine, located in an agricultural area approximately 0.5-mile north of Braidwood, consisted of problem acreage associated with a gob refuse area. The steeply sloped and severely eroded gob pile was 21 to 30 feet in height and barren of vegetation. Potential for drainage to adjacent streams existed at the mine.

U007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	5.4	1,350	14	0.2	2.0	1.7	520
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.1	1,220	0.3	7	10	0.2	7.8	1,600
Burned Gob								
Slurry								

County Williamson T 8S R 1E S 1

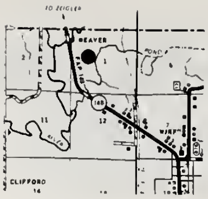
Mine Index U187 Opened 1908 Closed 1935

Environmental Locale Early Forest

Mined by Old Ben Coal Corporation

Owner R. & R. Farms, Inc.

Gob Volume None Problem Area Index 13



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
5.0			5.0			

Description:

A tipple area with associated problem acreage was all that remained of this mine located in a forested area approximately 2 miles northwest of Herrin. Buildings and foundations remained on the area which supported a good vegetative cover. Potential for drainage to adjacent streams was not observed.

County Williamson T 8S R 1E S 8

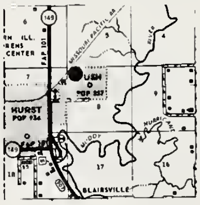
Mine Index U181 Opened 1904 Closed ---

Environmental Locale Urban-Residential

Mined by Western Coal & Mining Co.

Owner Consolidated Coal Co.

Gob Volume 16,000 Problem Area Index 46



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
9.0	2.0		4.0		3.0	

Description:

This mine, located in an urban-residential area near Bush, consisted of problem acreage associated with a gob refuse area, a tipple area, and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 11 to 20 feet in height. Sparse ground cover was restricted to the refuse perimeter. Foundations remained on the poorly vegetated tipple area. Runoff from the gob and tipple areas had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U181

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.1	31,000	39,300	3,000	10,000	52	46,000
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.4	4,500	5.2	102	160	270	1.2	5,700
Burned Gob								
Slurry								

County Williamson T 8S R 1E S 11

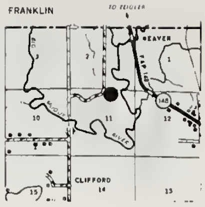
Mine Index S088 Opened 1948 Closed 1967

Environmental Locale Forest

Mined by Bell & Zoller Coal Co.

Owner Zeigler Coal & Coke Co.

Gob Volume 48,000 Problem Area Index 122



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
132.0	10.0	93.0	11.0		18.0	

Description:

This mine, located in a forested area approximately 2 miles northwest of Herrin, consisted of problem acreage associated with a gob refuse area, a slurry refuse area, a tipple area, and an off-site terrestrial area. The moderately eroded gob pile averaged 3 feet in height and was barren of vegetation. The moderately eroded slurry area held surface water and supported scattered stands of Phragmites australis. Buildings, foundations, and a 0.5-mile gob road remained on the moderately vegetated tipple area. Runoff from the gob and slurry had affected an adjacent off-site terrestrial area. Drainage was flowing from the mine site into the Big Muddy River.

County Williamson T 8S R 1E S 14

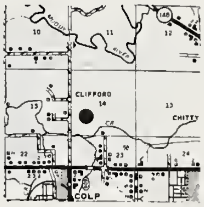
Mine Index U184 Opened 1905 Closed 1925

Environmental Locale Forest

Mined by Consolidated Coal Co.

Owner Zeigler Coal & Coke Co.

Gob Volume 39,000 Problem Area Index 48



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
14.5	3.0		6.0		5.5	

Description:

This mine, located in a forested area approximately 2 miles northwest of Herrin, consisted of problem acreage associated with a gob refuse area, a tipple area, and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 41 to 50 feet in height. Sparse ground cover was restricted to the refuse perimeter. Foundations remained on the excellently vegetated tipple area. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

S088

Drainage Samples

Sample Type		pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine		7.6	500	7	1.0	1.4	0.0	170
General Runoff		2.0	4,800	3,800	210	1,100	12.0	5,400
Below Mine		7.4	590	12	0.3	7.9	0.0	84
Gob Pools		1.9	10,900	23,600	1,200	4,000	200	20,000
		2.6	1,770	960	27	33	1.6	790
Slurry Pools		2.4	1,660	400	15	8.0	0.7	760
Flowing Openings								
On-site Impoundments								
Off-site Terrestrial	#1	2.4	3,300	1,400	150	8.0	27	2,400
	#2	2.2	4,000	2,100	86	560	7.5	4,100

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.3	4,600	5.5	56	180	460	7.3	5,500
Burned Gob								
Slurry	3.0	2,700	0.6	171	8.5	10	1.0	3,600

U184

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.2	430	7	0.2	1.2	0.3	59
General Runoff							
Below Mine	7.4	450	7	0.0	1.8	0.0	110
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	2,400	0.3	124	8.4	0.6	0.5	3,700
Burned Gob								
Slurry								

County Williamson T 8S R 1E S 20

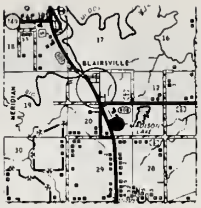
Mine Index U004 Opened 1921 Closed 1931

Environmental Locale Agricultural

Mined by Madison Coal Co.

Owner Madison Coal Corp.

Gob Volume 26,000 Problem Area Index 43



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
8.9	8.1				0.8	

Description:

This mine, located in an agricultural area approximately 1 mile north of Cambria, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The moderately eroded gob pile averaged 2 feet in height. Sparse ground cover vegetation was restricted to the refuse perimeter. Runoff from the gob had affected an off-site terrestrial area. A 0.5-acre water impoundment at the site was not polluted and supported emergent vegetation. Potential for drainage to adjacent streams was not observed.

County Williamson T 8S R 1E S 25

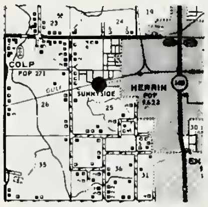
Mine Index U035 Opened --- Closed ---

Environmental Locale Early Forest

Mined by T. G. Wardin Coal Co.

Owner Container Stapling Corporation

Gob Volume 107,000 Problem Area Index 83



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site	
					Terres-trial	Aquatic
28.6	8.3				20.3	

Description:

This mine, located in a forested area near Herrin, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height and barren of vegetation. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams existed at the mine.

U004

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	5.4	520	28	3.0	2.4	10.0	270
General Runoff							
Below Mine	6.8	7,800	10	0.2	0.7	7.8	240
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	3.7	340	10	1.5	0.7	2.2	160
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	3,000	1.8	157	110	7.3	11	4,400
Burned Gob								
Slurry								

U035

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	1.6	31,000	19,700	2,200	840	145	89,000
Below Mine	2.8	1,220	350	6.4	230	4.7	930
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.7	3,200	2.2	109	110	27	2.8	4,900
Burned Gob								
Slurry								

County Williamson T 8S R 1E S 29

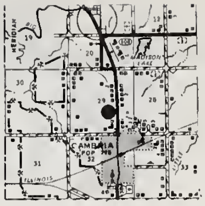
Mine Index L147 Opened 1939 Closed 1946

Environmental Locale Agricultural

Mined by No. Six Coal Co.

Owner Private

Gob Volume 17,000 Problem Area Index 31



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
3.8	3.6				0.2	

Description:

This mine, located in an agricultural area near Cambria, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover was restricted to the upper slope of the refuse pile. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drianage to adjacent streams was not observed.

County Williamson T 8S R 1E S 35

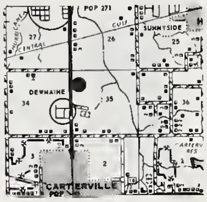
Mine Index U032 Opened --- Closed ---

Environmental Locale Early Forest

Mined by R. Dick Coal Co.

Owner Madison Coal Corp.

Gob Volume 73,000 Problem Area Index 45



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
10.6	9.0				1.6	

Description:

This mine, located in a forested area approximately 2 miles east of Cambria, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Poor ground cover and light overstory vegetation were restricted to the refuse perimeter. Runoff from the gob had affected an adjacent off-site terrestrial area. An 8.0-acre tipple area at the mine site supported a good vegetative cover and was not considered a problem area. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U032

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	5.1	1,350	22	0.4	1.6	0.3	760
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	3,800	4.2	106	200	310	19	5,500
Burned Gob								
Slurry								

County Williamson T 8S R 1E S 36

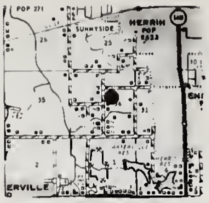
Mine Index U034 Opened 1906 Closed ----

Environmental Locale Agricultural

Mined by Hafer-Washed Coal Co.

Owner Private

Gob Volume 27,000 Problem Area Index 41



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
3.8	3.3					0.5

Description:

This mine, located in an agricultural area approximately 1 mile south of Herrin, consisted of problem acreage associated with a partially burned gob refuse area and an off-site aquatic area. The steeply sloped and severely eroded gob pile was 31 to 40 feet in height and barren of vegetation. Runoff from the gob had affected an adjacent off-site aquatic area. A second 1.4-acre gob pile supporting moderate vegetative cover and a 0.2-acre tipple area supporting excellent vegetative cover were not considered problem areas. A 0.5-acre water impoundment used as a cattle pond was also present. Potential for drainage to adjacent streams existed at the mine.

County Williamson T 8S R 2E S 5

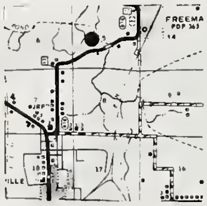
Mine Index S009 Opened 1909 Closed 1949

Environmental Locale Agricultural

Mined by Freeman Coal Mining Co.

Owner Frank Nutty, Inc.

Gob Volume 13,000 Problem Area Index 30



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
11.0	4.0		7.0			

Description:

This mine, located in an agricultural area approximately 1.5 miles north of Herrin, consisted of problem acreage associated with a gob refuse area and a tipple area. The moderately eroded gob pile, part of which was removed, averaged 2 feet in height. Poor ground cover vegetation was restricted to the refuse perimeter. Buildings, foundations, and a 0.2-mile gob road remained on the moderately vegetated tipple area. Potential for drainage to adjacent streams was not observed.

U034

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	2.8	4,700	3,200	510	2.6	15	5,400
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	6.0	240	13	4.6	2.7	1.8	100
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	3,500	3.4	39	210	32	3.0	5,200
Burned Gob								
Slurry								

S009

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools	3.0	620	300	0.4	0.7	0.6	300
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.9	320	0.1	319	1.0	0.4	0.3	270
Burned Gob								
Slurry								

County Williamson T 8S R 2E S 10

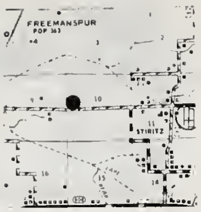
Mine Index S093 Opened 1947 Closed 1955

Environmental Locale Agricultural

Mined by Freeman Coal Mining Corp.

Owner Private

Gob Volume 310,000 Problem Area Index 192



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
120.5	32.0	3.0	16.8	43.9	20.8	4.0

Description:

This mine, located in an agricultural area approximately 2 miles northeast of Herrin, consisted of problem acreage associated with a partially burned gob refuse area, a slurry refuse area, a tipple area, two on-site water impoundments, and off-site terrestrial and aquatic areas. The moderately sloped and severely eroded gob pile was 11 to 20 feet high. A portion of the gob had been removed by a carbon recovery operation. Sparse ground cover was scattered on the refuse. The uneroded slurry refuse area held surface water and was barren of vegetation. Buildings, foundations, and a 0.2-mile gravel road remained on the tipple area, which supported a good vegetative cover around the perimeter of the area. Runoff from the gob and slurry had affected two on-site water impoundments, as well as off-site terrestrial and aquatic areas. Potential for drainage to adjacent streams was not observed.

County Williamson T 8S R 2E S 11

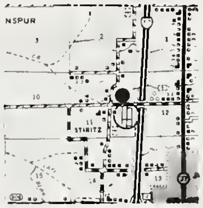
Mine Index U204 Opened --- Closed 1939

Environmental Locale Rural-Residential

Mined by Cosgrove-Mehan Coal Co.

Owner Private

Gob Volume 2,400 Problem Area Index 35



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
12.9	3.0		9.9			

Description:

This mine, located in a rural-residential area approximately 1.5 miles northwest of Johnston City, consisted of problem acreage associated with a gob refuse area and a tipple area. The uneroded gob pile averaged less than 1 foot in height with a 3 to 15 percent slope. Good ground cover and sparse overstory vegetation were uniformly distributed on the refuse. The tipple area was being utilized as an authorized junk yard. A 4.0-acre unpolluted water impoundment was also present. Potential for drainage to adjacent streams existed at the mine.

S093

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.2	6,700	7,200	570	3,300	35	4,900
Below Mine							
Gob Pools							
Slurry Pools	2.4	14,600	9,700	1,300	4,000	62	8,800
Flooded Openings							
Flowing Openings							
On-site Impoundments #1	7.4	260	10	0.2	8.0	0.0	100
#2	2.2	6,700	7,700	540	1,600	34	9,400
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.4	4,300	6.4	166	240	560	4.8	6,100
Burned Gob	5.0	2,200	0.1	85	0.7	1.8	7.2	3,400
Slurry	2.2	5,400	9.9	17	270	900	1.9	8,300

U204

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.4	980	19	0.2	1.1	0.0	270
General Runoff							
Below Mine	7.1	750	11	0.4	0.4	1.7	280
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.8	240	9	0.0	2.9	0.0	87
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	5.4	150	Tr	91	1.6	0.6	1.2	130
Burned Gob								
Slurry								

County Williamson T 8S R 2E S 12

Mine Index U203 Opened 1918 Closed 1936

Environmental Locale Early Forest

Mined by Old Ben Coal Corp.

Owner Private

Gob Volume 2,700 Problem Area Index 25

Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
22.9	20.9		2.0			

Description:

This mine, located in a forested area near Johnston City, consisted of problem acreage associated with a gob refuse area and a tipple area. The moderately eroded gob pile, part of which was removed, averaged less than 1 foot in height. Moderate ground cover and sparse overstory vegetation were scattered on the refuse. Foundations remained on the excellently vegetated tipple area. A 2.0-acre gob pile which had been plowed and planted to rye grass was not a problem. Potential for drainage to adjacent streams was not observed.

County Williamson T 8S R 2E S 17

Mine Index U193 Opened 1907 Closed 1923

Environmental Locale Forest

Mined by Chicago, Wilmington, & Franklin C.C.

Owner C. B. & Q. Railroad

Gob Volume 345,000 Problem Area Index 113

Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
35.6	35.6					

Description:

This mine, located in a forested area near Herrin, consisted of problem acreage associated with a gob refuse area. The steeply sloped and severely eroded gob pile, partially graded and covered, was 11 to 20 feet in height. The area had been used as a railroad dumping yard. Good ground cover vegetation was uniformly distributed on the refuse area along with a few scattered trees. A 33.1-acre water impoundment was not considered a problem. Potential for drainage to adjacent streams was not observed.

U032

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	400	0.2	141	0.1	1.2	0.8	240
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Williamson T 8S R 2E S 19

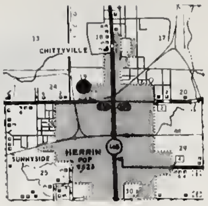
Mine Index U186 Opened 1897 Closed 1931

Environmental Locale Herbs-Shrubs-Trees

Mined by Chicago-Wilmington & Franklin Coal Co.

Owner Private

Gob Volume 19,000 Problem Area Index 41



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
13.9	2.0		4.0		7.9	

Description:

This mine, located near Herrin, consisted of problem acreage associated with a gob refuse area, a tipple area, and an off-site terrestrial area. The moderately sloped and severely eroded gob pile was 21 to 30 feet in height. Sparse ground cover was scattered on the refuse. Foundations and a 0.2-mile gob road remained on the excellently vegetated tipple area. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Williamson T 8S R 2E S 20

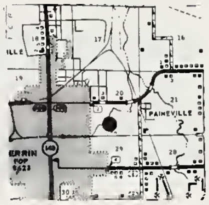
Mine Index S003 Opened 1897 Closed 1940

Environmental Locale Urban-Industrial

Mined by Consolidated Coal Co.

Owner Zeigler Coal & Coke

Gob Volume 44,000 Problem Area Index 66



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
20.9	9.0		6.0		5.9	

Description:

This mine, located in an urban-industrial area near Herrin, consisted of problem acreage associated with a gob refuse area, a tipple area; and an off-site terrestrial area. The severely eroded gob pile averaged 3 feet in height. Sparse ground cover and overstory vegetation were restricted to the refuse perimeter. Buildings, foundations, and a 0.2-mile gob road remained on the poorly vegetated tipple area. A 10.0-acre water impoundment, not considered a problem, was present at the site. Runoff from the gob had affected an off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

U186

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	7.6	980	12	0.4	4.4	0.4	240
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.1	2,500	0.8	153	31	2.1	0.9	3,900
Burned Gob								
Slurry								

S003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	2.4	1,490	350	12	660	5.3	910
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	7.7	1,510	21	0.2	0.8	0.0	820
Off-site Aquatic							
Off-site Terrestrial	2.4	1,480	270	11	370	4.6	910

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,500	0.8	185	44	2.2	1.6	3,700
Burned Gob								
Slurry								

County Williamson T 8S R 2E S 21

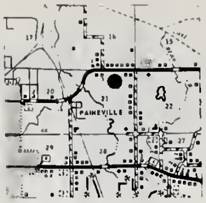
Mine Index S020 Opened 1938 Closed 1947

Environmental Locale Early Forest

Mined by Consolidated Coal Co.

Owner Zeigler Coal Co.

Gob Volume 29,000 Problem Area Index 50



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
25.9	9.0		5.0	1.0	10.9	

Description:

This mine, located in a forested area approximately 1 mile east of Herrin, consisted of problem acreage associated with a gob refuse area, a tipple area, an on-site water impoundment, and an off-site terrestrial area. The severely eroded gob pile averaged 2 feet in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Buildings and foundations remained on the tipple area which supported a moderate vegetative cover. Runoff from the gob had affected an on-site water impoundment and an off-site terrestrial area. A second water impoundment, 2.0 acres in size, was not considered a problem. Potential for drainage to adjacent streams existed at the mine.

County Williamson T 8S R 2E S 24

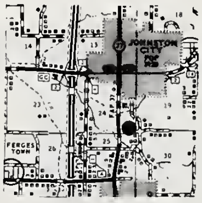
Mine Index U205 Opened 1896 Closed 1924

Environmental Locale Forest

Mined by St. Louis Coal & Iron Co.

Owner Management Serv. Corp.

Gob Volume 4,100 Problem Area Index 38



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
14.9	14.9					

Description:

This mine, located in a forested area near Johnston City, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile averaged less than 1 foot in height. Moderate ground cover and overstory vegetation were uniformly distributed on the refuse area. Potential for drainage to adjacent streams was not observed.

S020

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments #1	2.6	1,180	1,100	16	25	4.7	290
#2	5.6	730	43	0.2	0.9	0.0	450
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.5	300	0.2	300	1.1	1.1	0.2	160
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Williamson T 8S R 2E S 31

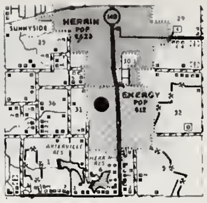
Mine Index U050 Opened --- Closed 1924

Environmental Locale Rural-Residential

Mined by Taylor Coal Co.

Owner Private

Gob Volume 44,000 Problem Area Index 57



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
12.5	5.5				7.0	

Description:

This mine, located in a rural-residential area near Energy, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The severely eroded gob pile averaged 5 feet in height and was barren of vegetation. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams existed at the mine.

County Williamson T 8S R 2E S 36

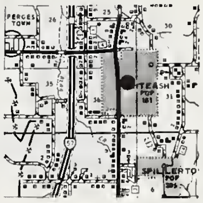
Mine Index U063 Opened --- Closed 1930

Environmental Locale Rural-Residential

Mined by Carterville District Coal Co.

Owner W.S.C.S.

Gob Volume 7,100 Problem Area Index 35



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
4.2	2.2				2.0	

Description:

This mine, located in a rural-residential area approximately 2 miles south of Johnston City, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The severely eroded gob pile averaged 2 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were scattered on the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams existed at the mine.

U050

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	3.8	590	85	11	6.3	12	360
General Runoff	2.4	7,700	6,100	400	510	27	9,200
Below Mine	2.3	17,200	21,500	1,300	800	59	36,000
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	7.7	79	11	1.1	2.5	0.0	47
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.2	7,000	42	122	1,100	3,300	3.3	16,100
Burned Gob								
Slurry								

U063

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.9	1,820	630	56	4.2	28	980
Below Mine	6.0	520	85	0.5	25	1.9	190
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,500	0.5	135	15	1.2	0.2	3,600
Burned Gob								
Slurry								

County Williamson T 8S R 3E S 28

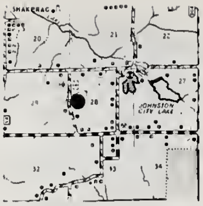
Mine Index U078 Opened 1920 Closed 1932

Environmental Locale Forest

Mined by St. Louis Coal & Iron Co.

Owner St. Louis Coal & Iron Co.

Gob Volume 500 Problem Area Index 18



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.5	0.5					

Description:

This mine, located in a forested area approximately 2 miles southeast of Johnston City, consisted of problem acreage associated with a small gob refuse area. The steeply sloped and severely eroded gob pile was 11 to 20 feet in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. A 1.5-acre tipple area supporting moderate vegetative cover was not considered a problem. Potential for drainage to adjacent streams existed at the mine.

County Williamson T 8S R 3E S 31

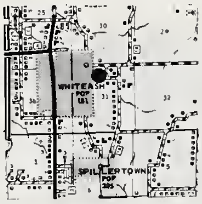
Mine Index U076 Opened --- Closed ---

Environmental Locale Forest

Mined by Johnston City Washed Coal Co.

Owner Private

Gob Volume 300 Problem Area Index 19



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
5.3	0.2		4.6		0.4	0.1

Description:

This mine, located in a forested area near White Ash, consisted of problem acreage associated with a gob refuse area, a tipple area, and off-site terrestrial and aquatic areas. The severely eroded gob pile, utilized as a dump, averaged 1 foot in height. Sparse ground cover and light overstory vegetation were scattered on the refuse. Buildings, machinery, and a 0.2-mile dirt road remained on the excellently vegetated tipple area, which was utilized as a dump. Runoff from the gob had affected adjacent off-site terrestrial and aquatic areas. Potential for drainage to adjacent streams was not observed.

U078

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.3	570	9	0.0	3.2	0.0	170
General Runoff							
Below Mine	3.1	1,990	310	35	0.1	13	1,400
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.1	1,450	0.9	0	56	2.0	0.3	1,900
Burned Gob								
Slurry								

U076

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	2.8	1,040	190	12	23	2.3	300
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.3	4,500	5.5	202	180	240	1.2	5,900
Burned Gob								
Slurry								

County Williamson T 8S R 3E S 34

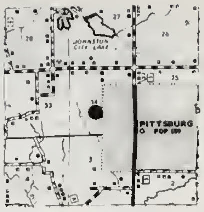
Mine Index S008 Opened 1916 Closed ---

Environmental Locale Early Forest

Mined by Franco Mining Co.

Owner Private

Gob Volume 800 Problem Area Index 30



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
1.0	1.0					

Description:

This mine, located in a forested area near Pittsburg, consisted of problem acreage associated with a small gob refuse area. The moderately eroded gob pile averaged less than 1 foot in height. Good ground cover and moderate overstory vegetation were scattered on the refuse. A flooded shaft at the site constituted a hazard. Potential for drainage to adjacent streams was not observed.

County Williamson T 9S R 1E S 11

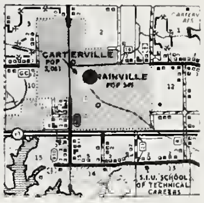
Mine Index L135 Opened -- Closed 1940

Environmental Locale Urban-Residential

Mined by Beltz Coal Co.

Owner Private

Gob Volume 1,500 Problem Area Index 26



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site Terrestrial	Off-site Aquatic
4.7	4.7					

Description:

This mine, located in an urban-residential area in Crainville, consisted of problem acreage associated with a gob refuse area. The moderately eroded gob pile averaged less than 1 foot in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

S008 Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings	4.1	510	14	0.8	0.6	2.0	290
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Williamson T 9S R 1E S 31

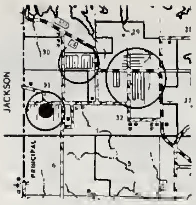
Mine Index L178 Opened 1928 Closed 1967

Environmental Locale Forest

Mined by Tregoning Coal Co.

Owner Private

Gob Volume 1,000 Problem Area Index 18



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.1	0.6				0.5	

Description:

This mine, located in a forested area near Crab Orchard National Wildlife Refuge, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The moderately eroded gob pile averaged 1 foot in height. Sparse ground cover vegetation was restricted to the refuse perimeter. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County Williamson T 9S R 2E S 2

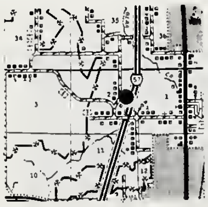
Mine Index U065 Opened 1901 Closed ---

Environmental Locale Forest

Mined by Chicago & Big Muddy Coal Co.

Owner Private

Gob Volume 12,000 Problem Area Index 31



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
3.7	3.7					

Description:

This mine, located in a forested area approximately 3 miles south of Johnston City, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile averaged 2 feet in height. Sparse ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

NO DRAINAGE OR REFUSE DATA AVAILABLE

U065

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	4.8	520	90	5.2	78	18	210
General Runoff	2.3	5,700	4,800	340	390	12	4,800
Below Mine	3.9	1,060	200	10	0.5	13	530
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	420	0.3	66	3.3	1.2	0.1	190
Burned Gob								
Slurry								

County Williamson T 9S R 3E S 6

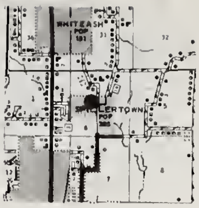
Mine Index L002 Opened 1935 Closed 1940

Environmental Locale Rural-Residential

Mined by Blue Ribbon Coal Co.

Owner Private

Gob Volume 100 Problem Area Index 21



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
0.8	0.8					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in a rural-residential area near Spillertown. The uneroded gob pile averaged less than 1 foot in height. Sparse ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Williamson T 9S R 3E S 6

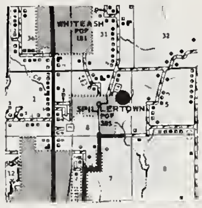
Mine Index L048 Opened 1937 Closed 1948

Environmental Locale Rural-Residential

Mined by Black Crystal Coal Co.

Owner Private

Gob Volume 22,000 Problem Area Index 67



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
16.5	13.5				1.3	1.7

Description:

This mine, located in a rural-residential area near Spillertown, consisted of problem acreage associated with a gob refuse area and off-site terrestrial and aquatic areas. The severely eroded gob pile averaged 1 foot in height. Sparse ground cover and overstory vegetation were scattered on the refuse. Runoff from the gob had affected off-site terrestrial and aquatic areas. Potential for drainage to adjacent streams was not observed.

L002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	2.8	1,800	370	22	38	16	880
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,600	0.9	158	51	2.2	8.2	4,100
Burned Gob								
Slurry								

L048

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic	6.9	1,680	25	0.2	0.6	0.0	890
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	1,600	0.8	52	34	15	1.2	2,200
Burned Gob								
Slurry								

County Williamson T 9S R 3E S 6

Mine Index L162 Opened 1900 Closed ---

Environmental Locale Agricultural

Mined by Spillertown Coal Co.

Owner Private

Gob Volume 1,000 Problem Area Index 20

Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.1	0.1				1.0	

Description:

This mine, located in an agricultural area near Spillertown, consisted of problem acreage associated with a small gob refuse area and an off-site terrestrial area. The severely eroded gob pile, utilized as a dump, averaged 1 foot in height. Sparse ground cover vegetation was scattered on the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

County Williamson T 9S R 3E S 11

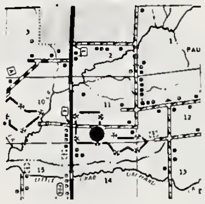
Mine Index L003 Opened 1933 Closed 1948

Environmental Locale Strip Mine-Inactive

Mined by Pickford Coal Co.

Owner Private

Gob Volume 2,300 Problem Area Index 10



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.4	1.4					

Description:

This mine, located in the vicinity of an inactive strip mine approximately 5 miles northeast of Marion, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile averaged 1 foot in height. Sparse ground cover was scattered on the refuse. A 2.7-acre tipple area supporting good vegetative cover and two water impoundments, 0.1-acre and 0.2-acre in size, were not considered problem areas. Potential for drainage to adjacent streams was not observed.

L162

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.8	1,450	200	15	7.9	2.6	790
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

L003

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments #1	6.2	10	19	0.9	13	1.9	110
#2	6.8	730	15	0.0	0.7	1.8	260
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Williamson T 9S R 3E S 11

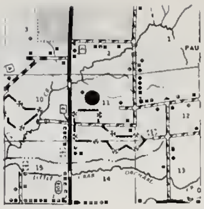
Mine Index S104 Opened 1965 Closed ---

Environmental Locale Agricultural

Mined by Peabody Coal Co.

Owner Sentry Royalty Co.

Gob Volume 2,300 Problem Area Index 20



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
1.4	1.4					

Description:

This mine, located in an agricultural area approximately 4 miles northeast of Marion, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile averaged 1 foot in height. Sparse ground cover was scattered on the refuse. Potential for drainage to adjacent streams was not observed.

County Williamson T 9S R 3E S 13

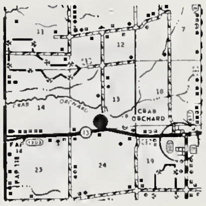
Mine Index L150 Opened 1939 Closed 1949

Environmental Locale Early Forest

Mined by New Black Diamond Coal Co.

Owner Private

Gob Volume 152,000 Problem Area Index 97



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
31.1	18.9	3.3			8.9	

Description:

This mine, located in a forested area near Crab Orchard, consisted of problem acreage associated with a partially burned gob refuse area, a slurry refuse area, and an off-site terrestrial area. The severely eroded gob pile was 21 to 30 feet high with a 3 to 15 percent slope. The owner of the site was in the process of grading and covering the gob in order to build a home on the refuse area. The slurry area was holding surface water and supported sparse ground cover vegetation on its perimeter. Runoff from the gob and slurry had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

L150

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.2	4,800	3,600	1,100	440	4.3	4,000
Below Mine	2.2	4,800	3,000	700	450	3.4	3,800
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	2,600	0.8	72	32	2.1	0.6	3,700
Burned Gob								
Slurry	3.1	540	0.3	198	2.8	4.2	2.9	250

County Williamson T 9S R 3E S 20

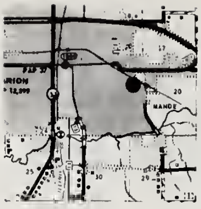
Mine Index U293 Opened -- Closed --

Environmental Locale Urban-Industrial

Mined by Unknown

Owner Private

Gob Volume 100 Problem Area Index 11



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
0.3	0.1				0.2	

Description:

A small gob refuse area and a small off-site terrestrial area with associated problem acreage were all that remained of this mine located in an urban-industrial area near Marion. The moderately sloped and eroded gob pile averaged less than 1 foot in height. Moderate ground cover and sparse overstory vegetation were restricted to the refuse perimeter. Potential for drainage to adjacent streams was not observed.

County Williamson T 9S R 3E S 23

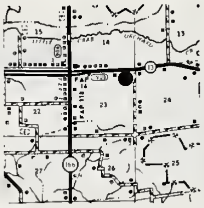
Mine Index L155 Opened 1939 Closed 1949

Environmental Locale Rural-Residential

Mined by Wilkins "Square Deal" Coal Co.

Owner Private

Gob Volume 5,500 Problem Area Index 41



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
8.9	6.6				2.3	

Description:

This mine, located in a rural-residential area approximately 1 mile west of Crab Orchard, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The severely eroded gob pile averaged less than 1 foot in height. Sparse ground cover vegetation was restricted to the refuse perimeter. Runoff from the gob had affected an off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

U293

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial	3.5	2,000	105	7.7	15	36	800

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

L155

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.2	2,700	590	120	120	49	1,300
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.9	3,000	1.8	107	95	12	38	4,100
Burned Gob								
Slurry								

County Williamson T 9S R 3E S 24

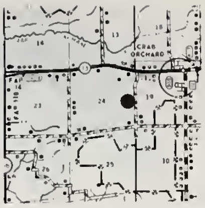
Mine Index L136 Opened 1939 Closed 1946

Environmental Locale Early Forest

Mined by O.B.C. Coal Co.

Owner Private

Gob Volume 1,300 Problem Area Index 22



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
2.2	1.6				0.6	

Description:

This mine, located in a forested area near Crab Orchard, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The severely eroded gob pile averaged less than 1 foot in height. Poor ground cover and sparse overstory vegetation were restricted to the refuse perimeter. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Williamson T 9S R 3E S 24

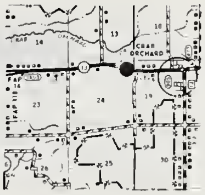
Mine Index L151 Opened 1939 Closed 1948

Environmental Locale Agricultural

Mined by B. & J. Coal Co.

Owner Private

Gob Volume 18,000 Problem Area Index 36



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impoundment	Off-site	
					Terrestrial	Aquatic
4.4	4.4					

Description:

This mine, located in an agricultural area approximately 1 mile northwest of Crab Orchard, consisted of problem acreage associated with a partially burned gob refuse area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

L136

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	5.3	850	34	0.3	1.2	2.0	410
General Runoff	3.6	930	37	6.8	19	3.1	440
Below Mine	5.3	1,010	16	0.5	2.0	1.6	550
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	3,000	1.6	210	24	150	3.5	4,100
Burned Gob	7.8	2,500	Tr	4	0.2	0.4	0.9	3,400
Slurry								

L151

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.0	1,430	140	12	11	5.1	580
Below Mine	6.0	1,720	25	0.5	6.8	4.6	410
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.7	3,200	2.3	141	120	25	3.0	4,200
Burned Gob								
Slurry								

County Williamson T 9S R 3E S 24

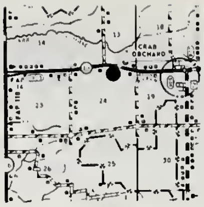
Mine Index L109 Opened 1937 Closed 1944

Environmental Locale Forest

Mined by Black Banner Coal Co.

Owner New Black Diamond Coal Co.

Gob Volume 2,700 Problem Area Index 27



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
5.4	1.7				3.7	

Description:

This mine, located in a forested area approximately 1 mile west of Crab Orchard, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The severely eroded gob pile averaged less than 1 foot in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Williamson T 9S R 3E S 24

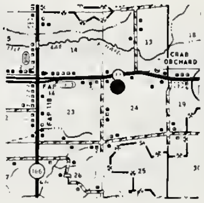
Mine Index L033 Opened 1936 Closed 1952

Environmental Locale Agricultural

Mined by New Black Diamond Coal Co.

Owner Private

Gob Volume 15,000 Problem Area Index 59



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
12.9	4.8		4.2		3.9	

Description:

This mine, located in an agricultural area approximately 1 mile west of Crab Orchard, consisted of problem acreage associated with a gob refuse area, a tipple area, and an off-site terrestrial area. The severely eroded gob pile averaged 2 feet in height. Sparse ground cover was scattered on the refuse. Buildings, machinery, and a 0.1-mile gob road remained on the poorly vegetated tipple area. An opening into the underground works, apparently the result of subsidence, was discovered in a nearby cornfield. The hole was not fenced and constituted an extremely hazardous situation. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

L109

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	4.5	2,400	160	7.4	26	5.9	1,200
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.9	1,450	0.8	133	18	21	0.8	1,300
Burned Gob								
Slurry								

L033

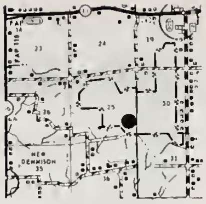
Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	2.6	3,000	520	73	13	16	2,200
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	3,400	2.6	194	130	54	4.8	4,600
Burned Gob								
Slurry								

County Williamson T 9S R 3E S 25
Mine Index L063 Opened 1932 Closed 1943
Environmental Locale Strip Mine-Inactive
Mined by Pea Ridge Coal Co.
Owner Private
Gob Volume 1,500 Problem Area Index 12



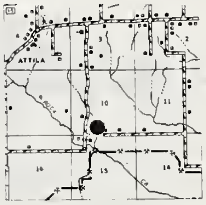
Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.9	1.9					

Description:

This mine, located in the vicinity of an inactive strip mine approximately 1.5 miles southwest of Crab Orchard, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile averaged less than 1 foot in height. Moderate ground cover vegetation was uniformly distributed on the refuse along with a few trees. Potential for drainage to adjacent streams existed at the mine.

County Williamson T 9S R 4E S 10
Mine Index L179 Opened 1947 Closed 1952
Environmental Locale Forest
Mined by Stump Allen Coal Co.
Owner Stump Allen Coal Co.
Gob Volume None Problem Area Index 12



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.0			1.0			

Description:

A small tipple area with associated problem acreage was all that remained of this mine located in a forested area approximately 3 miles northeast of Crab Orchard. Machinery, buildings, and a 0.1-mile gob road remained on the tipple area, which was utilized as a dump, and supported a moderate vegetative cover. Potential for drainage to adjacent streams was not observed.

NO DRAINAGE OR REFUSE DATA AVAILABLE

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Williamson T 9S R 4E S 17

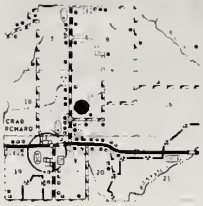
Mine Index L177 Opened 1947 Closed 1969

Environmental Locale Early Forest

Mined by Parton Coal Co.

Owner Parton Coal Co.

Gob Volume 83,000 Problem Area Index 84



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
16.7	12.9	0.6		1.4	1.8	

Description:

This mine, located in a forested area approximately 1 mile northeast of Crab Orchard, consisted of problem acreage associated with a partially burned gob refuse area, a slurry refuse area, an on-site water impoundment, and an off-site terrestrial area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. The gob pile was graded and leveled after the survey was made. The slurry area was holding surface water and was barren of vegetation. The main slope into the mine and an air shaft were both open and constituted hazards. Runoff from the gob and slurry had affected an on-site water impoundment and an off-site terrestrial area. Drainage was flowing from the mine site into an adjacent stream.

County Williamson T 9S R 4E S 19

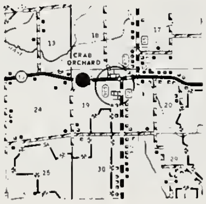
Mine Index L088 Opened 1937 Closed 1954

Environmental Locale Early Forest

Mined by Oak Grove Coal Co.

Owner Private

Gob Volume 6,600 Problem Area Index 31



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
7.0	4.1				2.9	

Description:

This mine, located in a forested area near Crab Orchard, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The severely eroded gob pile averaged 1 foot in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Runoff from the gob had affected an off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

L177

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.2	1,040	12	0.6	12	1.0	470
General Runoff #1	2.0	13,900	13,200	640	3,900	113	16,100
#2	1.9	13,400	11,900	600	3,900	109	17,400
Below Mine #1	6.6	1,030	31	72	27	14	2,100
#2	4.0	590	55	0.9	21	0.1	180
Gob Pools	2.6	1,920	560	21	150	1.8	1,400
Slurry Pools	2.4	4,400	3,500	190	1,000	11	4,700
Flooded Openings	4.4	3,300	4,400	50	200,000	32	2,500
On-Site Impoundments	5.4	480	7	0.6	1.1	1.8	170
Off-site Terrestrial #1	3.0	1,540	340	24	72	8.2	750
#2	1.8	12,600	16,700	630	6,500	43	24,000

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.9	3,000	1.2	56	39	12	0.6	3,800
Burned Gob								
Slurry	2.6	2,100	1.5	256	28	20	1.1	1,500

L088

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	4.3	610	17	2.3	5.8	3.3	240
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	800	0.5	430	8.9	4.8	0.3	480
Burned Gob								
Slurry								

County Williamson T 9S R 4E S 19

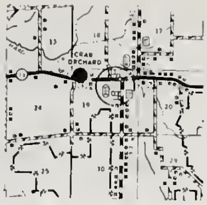
Mine Index L101 Opened 1937 Closed 1953

Environmental Locale Agricultural

Mined by Knight & Turner Coal Co.

Owner Private

Gob Volume 1,800 Problem Area Index 24



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
2.2	2.2					

Description:

This mine, located in an agricultural area near Crab Orchard, consisted of problem acreage associated with a partially burned gob refuse area. The severely eroded gob pile averaged less than 1 foot in height. Sparse ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Williamson T 9S R 4E S 20

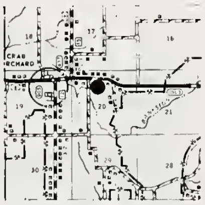
Mine Index L190 Opened 1948 Closed 1966

Environmental Locale Rural-Residential

Mined by Black Crystal Coal Co.

Owner Private

Gob Volume 8,600 Problem Area Index 35



Problem Acreage

Total	Gob	Slurry	Tipple	On-site Impound-ment	Off-site Terres-trial	Off-site Aquatic
5.3	5.3					

Description:

This mine, located in a rural-residential area approximately 1 mile east of Crab Orchard, consisted of problem acreage associated with a gob refuse area. The moderately eroded gob pile averaged less than 1 foot in height. Sparse ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

L101

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.2	1,140	6	0.2	1.6	1.6	460
General Runoff	2.9	3,500	910	180	62	91	2,300
Below Mine	7.2	1,220	6	0.2	0.6	1.8	480
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.6	3,500	2.6	195	75	130	0.6	4,500
Burned Gob								
Slurry								

L190

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.1	3,800	1,100	41	200	44	1,100
Below Mine	7.9	1,090	5	0.2	2.1	0.2	280
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.5	3,500	2.6	119	97	110	2.7	4,600
Burned Gob								
Slurry								

County Williamson T 9S R 4E S 27

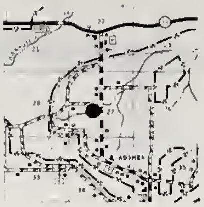
Mine Index L142 Opened 1938 Closed 1947

Environmental Locale Agricultural

Mined by New Superior Coal Co.

Owner Private

Gob Volume 400 Problem Area Index 20



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.3	1.3					

Description:

This mine, located in an agricultural area approximately 3 miles southeast of Crab Orchard, consisted of problem acreage associated with a gob refuse area. The uneroded gob pile averaged less than 1 foot in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Williamson T 9S R 4E S 27

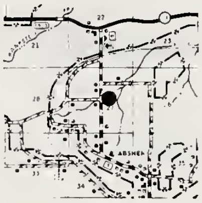
Mine Index S084 Opened 1944 Closed 1968

Environmental Locale Agricultural

Mined by Blue Bird Coal Co.

Owner Private

Gob Volume 38,000 Problem Area Index 44



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
5.8	4.7	1.1				

Description:

This mine, located in an agricultural area approximately 3 miles southeast of Crab Orchard, consisted of problem acreage associated with a partially burned gob refuse area and a slurry refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Sparse ground cover was restricted to the refuse perimeter. The uneroded slurry held surface water and was barren of vegetation. Potential for drainage to adjacent streams existed at the mine.

L142

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as CaCO$_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	7.3	2,500	10	0.4	0.6	4.8	1,600
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H$^+$/100g	Pot. Acidity meq H$^+$/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	4.8	2,200	Tr	95	0.1	0.4	9.8	3,300
#2	5.6	400	Tr	92	0.1	0.3	7.2	370
Slurry								

S084

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as CaCO$_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	3.0	1,590	220	18	32	20	960
Gob Pools	2.3	2,800	1,400	74	430	2.5	1,300
Slurry Pools	2.2	4,500	2,900	23	770	12	4,000
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H$^+$/100g	Pot. Acidity meq H$^+$/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.4	3,600	2.7	22	110	17	0.3	4,100
Burned Gob								
Slurry	2.2	4,800	7.0	84	270	280	3.2	4,800

County Williamson T 9S R 4E S 27

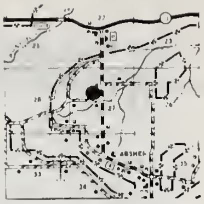
Mine Index L141 Opened 1938 Closed 1953

Environmental Locale Agricultural

Mined by Green Valley Coal Co.

Owner Private

Gob Volume 9,400 Problem Area Index 32



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
3.5	2.9				0.6	

Description:

This mine, located in an agricultural area approximately 3 miles southeast of Crab Orchard, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The severely eroded gob pile averaged 2 feet in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. A second 0.1-acre gob pile was not considered a problem. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Williamson T 9S R 4E S 29

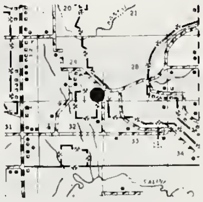
Mine Index L014 Opened 1934 Closed 1939

Environmental Locale Forest

Mined by Askew & White Coal Co.

Owner Private

Gob Volume NONE Problem Area Index 27



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.2			0.2			

Description:

An open shaft and a small tipple area were all that remained of this mine located in a forested area approximately 1.5 miles southeast of Crab Orchard. The main shaft on the poorly vegetated tipple area was not sealed and constituted a hazard.

L141

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	3.2	1,690	265	19	49	25	980
General Runoff							
Below Mine	3.0	1,590	220	18	42	20	870
Gob Pools	3.1	1,420	95	14	1.9	4.4	840
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.4	750	0.3	289	7.9	0.8	2.4	670
Burned Gob								
Slurry								

NO DRAINAGE OR REFUSE DATA AVAILABLE

County Williamson T 9S R 4E S 29

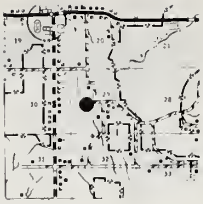
Mine Index L032 Opened 1933 Closed 1958

Environmental Locale Forest

Mined by Moore & Sons Coal Co.

Owner Private

Gob Volume 38,000 Problem Area Index 50



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
10.9	5.9		2.2		2.8	

Description:

This mine, located in a forested area approximately 1 mile southeast of Crab Orchard, consisted of problem acreage associated with a partially burned gob refuse area, a tipple area, and an off-site terrestrial area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Part of the gob had been removed by a coal recovery operation. Sparse ground cover and overstory vegetation were scattered on the refuse area. Buildings, machinery, and a 0.2-mile gob road remained on the sparsely vegetated tipple area. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Williamson T 9S R 4E S 30

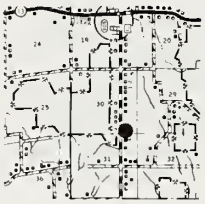
Mine Index L066 Opened -- Closed --

Environmental Locale Forest

Mined by Ozmun Coal Co.

Owner Private

Gob Volume 2,900 Problem Area Index 41



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
2.6	1.8				0.8	

Description:

This mine, located in a forested area approximately 1.5 miles south of Crab Orchard, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The severely eroded gob pile averaged less than 1 foot in height. Sparse ground cover and overstory vegetation were scattered on the refuse. The main shaft of the mine had not been sealed and constituted a hazard. Runoff from the gob had affected an off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

L032

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	7.6	2,200	8	0.2	0.6	0.6	1,100
General Runoff	2.3	8,100	5,100	250	2,400	21	7,800
Below Mine	7.2	2,200	14	1.0	14	0.0	1,200
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.1	2,600	0.6	123	11	3.9	0.6	3,900
Burned Gob								
Slurry								

L066

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.3	970	85	6.6	1.0	2.4	460
Below Mine	4.2	1,100	60	8.3	1.1	3.8	620
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	600	0.4	81	5.9	1.5	0.2	570
Burned Gob								
Slurry								

County Williamson T 9S R 4E S 30

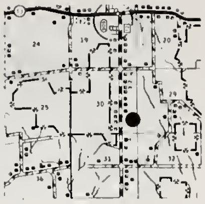
Mine Index L018 Opened 1935 Closed 1951

Environmental Locale Forest

Mined by New Walnut Valley Coal Co.

Owner Private

Gob Volume 1,300 Problem Area Index 36



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
1.6	1.6					

Description:

This mine, located in a forested area approximately 1 mile south of Crab Orchard, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile was less than 10 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were scattered on the refuse. The main shaft of the mine was open and constituted a hazard. Potential for drainage to adjacent streams existed at the mine.

County Williamson T 9S R 4E S 30

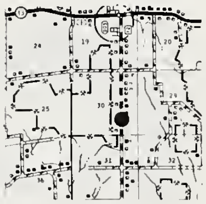
Mine Index L007 Opened 1935 Closed 1944

Environmental Locale Forest

Mined by Willow Springs Coal Co.

Owner Private

Gob Volume 9,000 Problem Area Index 28



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
5.6	5.6					

Description:

This mine, located in a forested area approximately 1 mile south of Crab Orchard, consisted of problem acreage associated with a gob refuse area. The moderately sloped and severely eroded gob pile was 11 to 20 feet in height. Poor ground cover and sparse overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

L018

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	5.0	1,350	65	2.0	0.7	3.6	750
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	3,800	0.3	203	0.7	1.3	0.3	150
Burned Gob								
Slurry								

L007

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	7.0	1,800	29	0.5	3.7	1.1	890
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings	6.5	2,700	130	3.6	20	0.4	1,400
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	2,700	1.0	241	38	5.8	5.6	3,900
Burned Gob								
Slurry								

County Williamson T 9S R4E S30

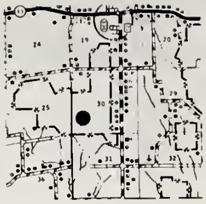
Mine Index L058 Opened 1934 Closed 1942

Environmental Locale Strip Mine-Inactive

Mined by Mitchell Coal Co.

Owner Bank of Egypt

Gob Volume 3,700 Problem Area Index 31



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
4.8	4.6			0.2		

Description:

This mine, located in the vicinity of an inactive strip mine approximately 1 mile south of Crab Orchard, consisted of problem acreage associated with a gob refuse area and an on-site water impoundment. The severely eroded gob pile averaged less than 1 foot in height with a 3 to 15 percent slope. Poor ground cover and moderate overstory vegetation were scattered on the refuse. Runoff from the gob had affected an on-site water impoundment which supported emergent vegetation. Potential for drainage to adjacent streams existed at the mine.

County Williamson T 9S R 4E S 30

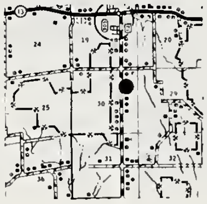
Mine Index L020 Opened 1897 Closed 1952

Environmental Locale Rural-Residential

Mined by Cedar Hill Coal Co.

Owner Private

Gob Volume 18,000 Problem Area Index 44



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
6.7	5.7				1.0	

Description:

This mine, located in a rural-residential area approximately 1 mile south of Crab Orchard, consisted of problem acreage associated with a partially burned gob refuse area and an off-site terrestrial area. The severely eroded gob pile averaged 2 feet in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were scattered on the refuse. Runoff from the gob had affected an off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

L058

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	4.1	1,100	55	3.2	0.5	5.3	240
Below Mine	6.9	1,490	29	0.2	1.6	0.0	620
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.0	2,800	1.1	390	38	11	0.5	3,700
Burned Gob								
Slurry								

L020

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	7.6	2,300	11	0.2	0.7	0.4	1,500
Gob Pools	3.0	2,700	410	39	49	72	1,900
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Williamson T 9S R 4E S 30

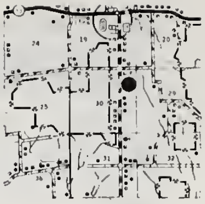
Mine Index L042 Opened 1936 Closed 1958

Environmental Locale Rural-Residential

Mined by Cherry Hill Coal Co.

Owner Private

Gob Volume 11,000 Problem Area Index 38



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
5.2	3.5				1.7	

Description:

This mine, located in a rural-residential area near Marion, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The moderately sloped and severely eroded gob pile was 11 to 20 feet high. Sparse ground cover and overstory vegetation were scattered on the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Williamson T 9S R 4E S 31

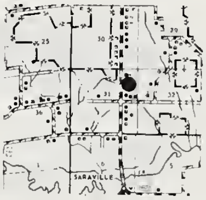
Mine Index L208 Opened 1951 Closed 1959

Environmental Locale Agricultural

Mined by Jones Coal Co.

Owner Private

Gob Volume 1,000 Problem Area Index 39



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impoundment	Terrestrial	Aquatic
1.4	1.2				0.2	

Description:

This mine, located in an agricultural area approximately 2 miles south of Crab Orchard, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The severely eroded gob pile averaged less than 1 foot in height. Sparse ground cover and overstory vegetation were scattered on the refuse. Department of Mines and Minerals records indicated that the shaft had been sealed in 1959, but an open entrance was observed. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

L042

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.7	2,500	345	26	20	7.5	1,400
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.2	2,500	0.4	64	5.8	2.0	3.8	3,300
Burned Gob								
Slurry								

L208

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.9	520	65	2.4	2.8	2.2	200
Below Mine	2.6	2,500	415	110	17	14	1,600
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	2.8	2,900	1.0	88	24	44	0.3	3,600
Burned Gob								
Slurry								

County Williamson T 9S R 4E S 34

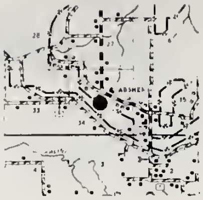
Mine Index L169 Opened 1934 Closed ---

Environmental Locale Forest

Mined by Stroebel Coal Co.

Owner Private

Gob Volume 1,500 Problem Area Index 21



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
1.8	1.8					

Description:

This mine, located in a forested area approximately 5 miles southeast of Crab Orchard, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile averaged less than 1 foot in height. Sparse ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams existed at the mine.

County Williamson T 9S R 4E S 34

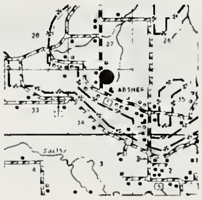
Mine Index U164 Opened --- Closed 1959

Environmental Locale Rural-Residential

Mined by Brantley Coal Co.

Owner Private

Gob Volume 6,300 Problem Area Index 35



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
4.1	3.9				0.2	

Description:

This mine, located in a rural-residential area approximately 5 miles southeast of Crab Orchard, consisted of problem acreage associated with a gob refuse area and an off-site terrestrial area. The severely eroded gob pile averaged 1 foot in height. Sparse ground cover and overstory vegetation were scattered on the refuse. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

L169

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.3	970	55	2.0	35	0.0	310
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

U164

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	2.7	2,300	365	22	44	12	920
Below Mine	2.9	2,100	405	39	26	17	1,100
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob #1	3.1	500	0.3	266	2.4	2.2	4.7	310
#2	2.8	2,200	1.0	200	30	11	0.2	2,500
Slurry								

County Williamson T 9S R 4E S 34

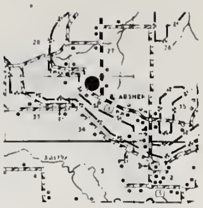
Mine Index L024 Opened 1935 Closed 1951

Environmental Locale Rural-Residential

Mined by Sims Coal Co.

Owner Private

Gob Volume 5,000 Problem Area Index 26



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
3.1	3.1					

Description:

This mine, located in a rural-residential area approximately 4 miles southeast of Crab Orchard, consisted of problem acreage associated with a gob refuse area. The severely eroded gob pile averaged 1 foot in height with a 3 to 15 percent slope. Sparse ground cover and overstory vegetation were scattered on the refuse. Potential for drainage to adjacent streams was not observed.

County Williamson T 9S R 4E S 35

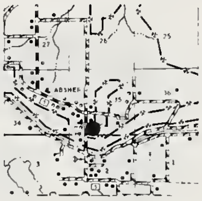
Mine Index L041 Opened 1934 Closed 1953

Environmental Locale Strip Mine-Inactive

Mined by Helm Coal Co.

Owner Private

Gob Volume 300 Problem Area Index 9



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impound-ment	Terres-trial	Aquatic
0.3	0.3					

Description:

A small gob refuse area with associated problem acreage was all that remained of this mine located in the vicinity of an inactive strip mine approximately 5 miles southeast of Marion. The uneroded gob pile averaged less than 1 foot in height. Poor ground cover was restricted to the refuse perimeter. Potential for drainage to adjacent streams existed at the mine.

L024

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	4.0	580	40	1.9	1.8	0.6	260
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

L041

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff							
Below Mine	6.4	1,000	17	0.7	3.6	3.3	560
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob								
Burned Gob								
Slurry								

County Woodford T 27N R 1W S 14

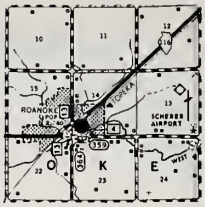
Mine Index S001 Opened 1884 Closed 1941

Environmental Locale Urban-Industrial

Mined by Roanoke Coal Co.

Owner Private

Gob Volume 750,000 Problem Area Index 116



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
11.7	9.3		0.6		1.8	

Description:

This mine, located in an urban-industrial area in Roanoke, consisted of problem acreage associated with a partially burned gob refuse area, a tipple area and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 71 to 80 feet in height. Sparse ground cover and overstory vegetation were restricted to the lower slope of the refuse pile. Foundations remained on the tipple area, which supported a good vegetative cover. Runoff from the gob had affected an adjacent off-site terrestrial area, and potential for drainage to adjacent streams existed at the mine.

County Woodford T 28N R 2W S 6

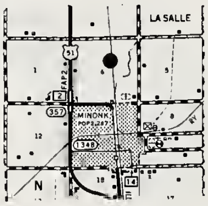
Mine Index S002 Opened 1898 Closed 1936

Environmental Locale Agricultural

Mined by W. G. Sutton

Owner R.M. Disposal Service

Gob Volume 1,430,000 Problem Area Index 154



Problem Acreage

					Off-site	
Total	Gob	Slurry	Tipple	On-site Impound-ment	Terres-trial	Aquatic
19.0	11.8		3.5	1.0	2.7	

Description:

This mine, located in an agricultural area approximately 1 mile north of Minonk, consisted of problem acreage associated with a partially burned gob refuse area, a tipple area, an on-site water impoundment, and an off-site terrestrial area. The steeply sloped and severely eroded gob pile was 81 to 90 feet in height. Sparse ground cover was restricted to the refuse perimeter which was used as an authorized sanitary landfill. Buildings, machinery, and a 0.5-mile gob road remained on the tipple area, which supported good vegetative cover. Runoff from the gob had affected an on-site water impoundment and an off-site terrestrial area. Potential for drainage to adjacent streams was not observed.

S001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine	8.4	800	0	0.1	0.8	0.0	120
General Runoff							
Below Mine	7.5	720	13	0.2	0.5	0.0	46
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.8	760	0.2	27	4.1	1.0	2.9	790
Burned Gob	6.0	960	Tr	5	0.2	0.4	0.3	1,000
Slurry								

S002

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	5.2	3,900	16	0.9	0.7	19	2,500
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments	8.4	760	0.0	0.2	0.6	1.0	240
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	3.8	1,450	0.2	21	9.2	1.3	3.3	1,700
Burned Gob	4.0	1,900	0.2	13	4.4	0.3	29	2,500
Slurry								

County Woodford T 28N R 2W S 7

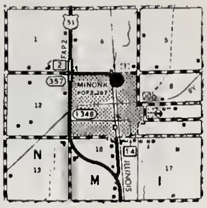
Mine Index U001 Opened 1905 Closed ---

Environmental Locale Urban-Residential

Mined by Minonk Coal Co.

Owner Private

Gob Volume 399,000 Problem Area Index 107



Problem Acreage

				On-site	Off-site	
Total	Gob	Slurry	Tipple	Impoundment	Terrestrial	Aquatic
6.9	5.5			0.1	1.0	0.3

Description:

This mine, located in an urban-residential area in Minonk, consisted of problem acreage associated with an extensively burned gob refuse area, an on-site water impoundment, an off-site terrestrial area, and an off-site aquatic area. The moderately sloped and severely eroded gob pile was 61 to 70 feet in height. Poor ground cover and sparse overstory vegetation were restricted to the lower slope of the refuse pile. Approximately 3.0 acres of the refuse had been leveled for construction of a water treatment plant. An open shaft at the mine site constituted a hazard. Runoff from the gob had affected an on-site water impoundment, as well as off-site terrestrial and aquatic areas. Potential for drainage to adjacent streams was not observed at the mine.

U001

Drainage Samples

Sample Type	pH	Conductivity micro-mhos/cm	Total Acidity mg/l as $CaCO_3$	Sol. Al mg/l	Total Fe mg/l	Sol. Mn mg/l	SO_4^{-2} mg/l
Above Mine							
General Runoff	3.5	2,200	710	92	160	378	2,200
Below Mine							
Gob Pools							
Slurry Pools							
Flooded Openings							
Flowing Openings							
On-site Impoundments							
Off-site Aquatic							
Off-site Terrestrial							

Refuse Samples

Sample Type	pH	Conductivity micro-mhos/cm	Tit. Acidity meq H^+/100g	Pot. Acidity meq H^+/100g	Al ppm	Fe ppm	Mn ppm	SO_4^{-2} ppm
Unburned Gob	4.8	120	0.1	8	0.2	0.5	0.4	72
Burned Gob								
Slurry								

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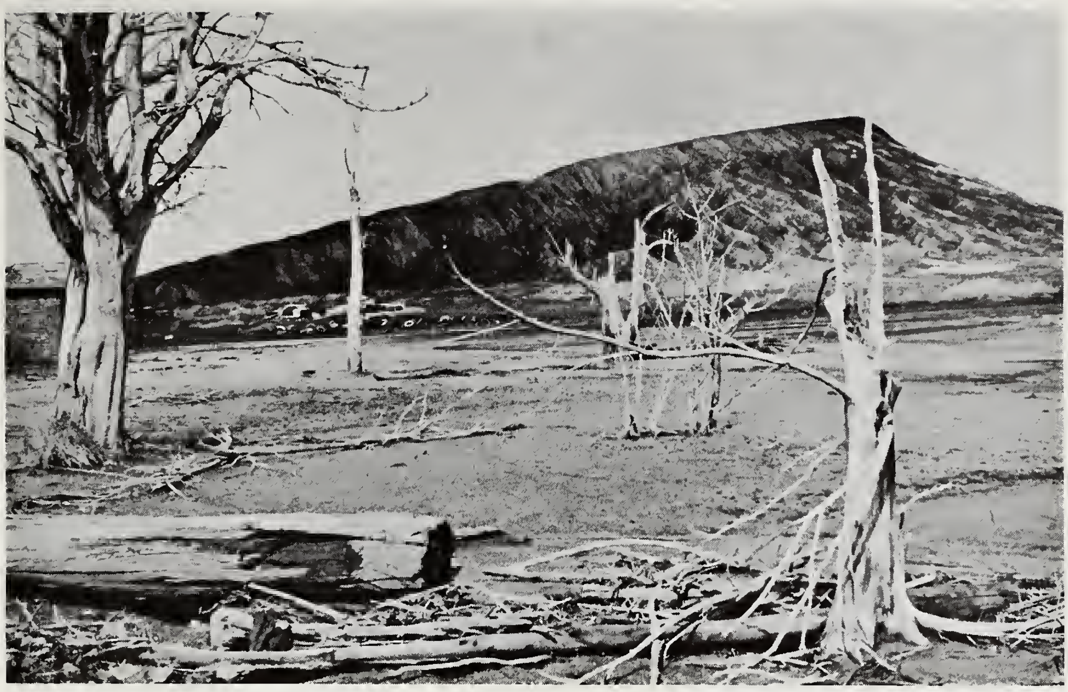
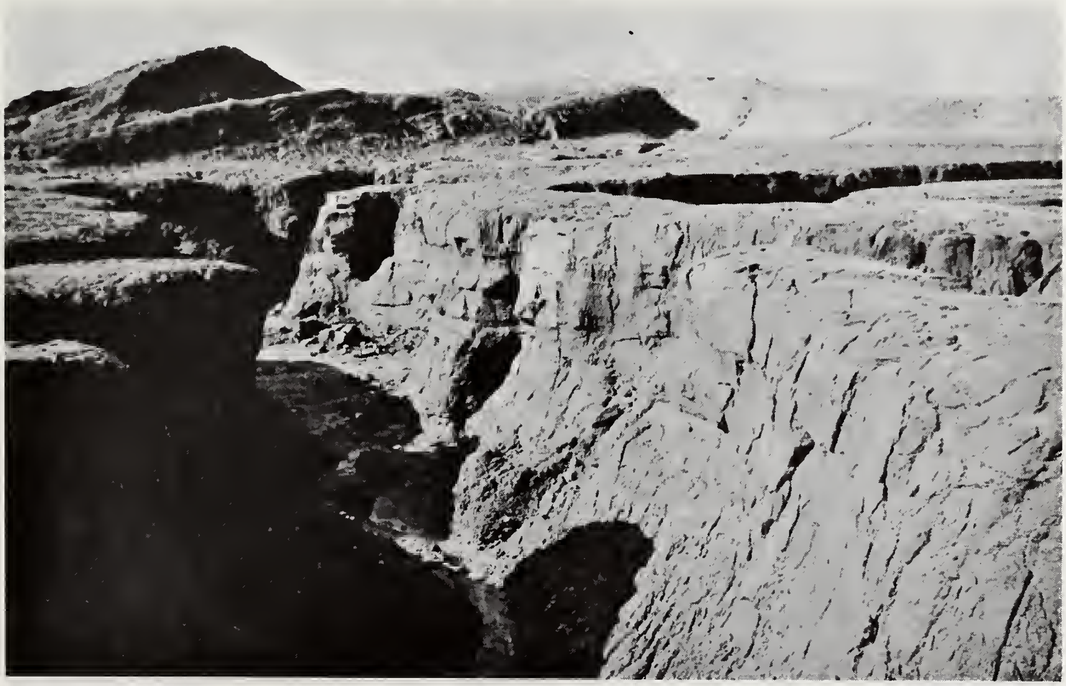
APPENDIX A

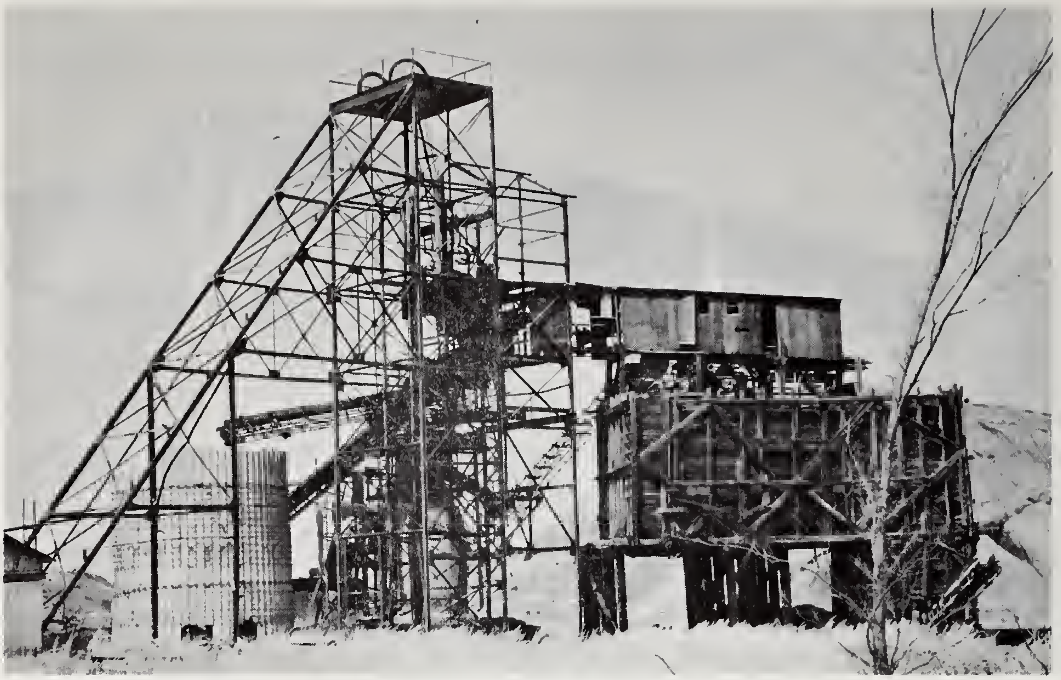
Representative Photographs of Problem Conditions



Abandoned gob disposal area

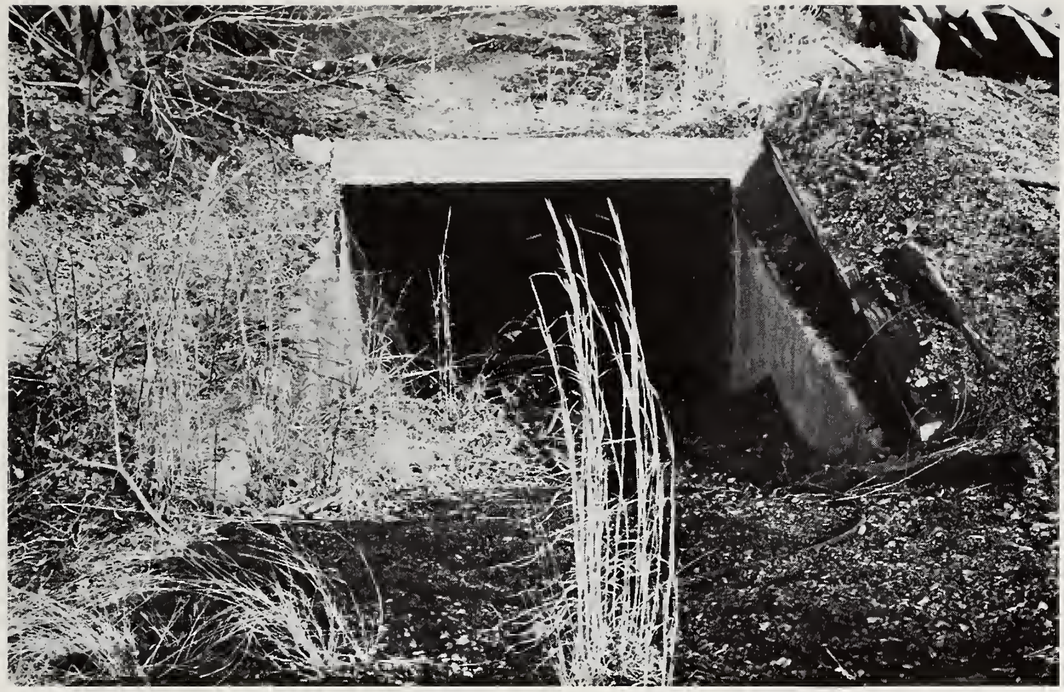


Severely eroded slurry disposal area

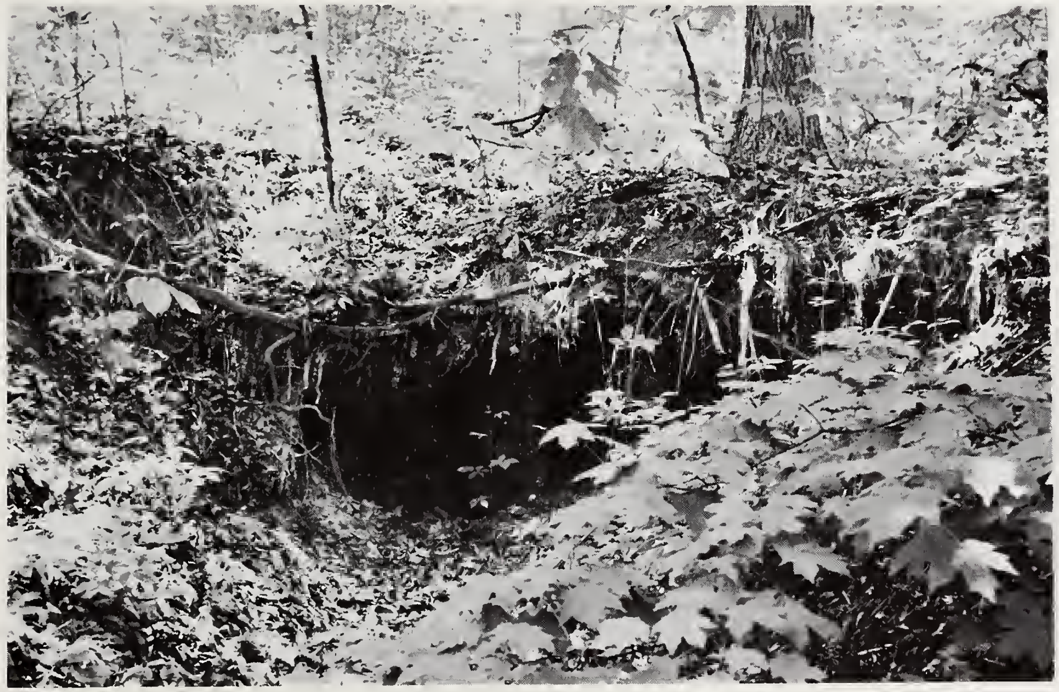


Abandoned tipple area

Potentially hazardous abandoned mine buildings



Unsealed entry to abandoned slope mine



Unsealed entry to an abandoned drift mine

Severely affected terrestrial area due to drainage from abandoned mine workings

Severely affected terrestrial area due to drainage and sedimentation from an abandoned gob area

Sediment-filled stream adjacent to an abandoned gob disposal area

Extensive sedimentation from an abandoned gob disposal area

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[illegible]

BOUND BY
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